MINISTRY OF HEALTH OF THE RUSSIAN FEDERATION

CHIEF STATE SANITARY INSPECTOR OF THE RUSSIAN FEDERATION

RESOLUTION No. 36 November 14, 2001

ON ENACTMENT OF SANITARY RULES

(as amended by Amendments No.1, approved by Resolution No. 27

of Chief State Sanitary Inspector of the RF dated 20.08.2002,
Amendments and Additions No. 2, approved by Resolution No. 41
of Chief State Sanitary Inspector of the RF dated 15.04.2003,
No. 5, approved by Resolution No. 42 of Chief State Sanitary Inspector of the RF dated 25.06.2007,
No. 6, approved by Resolution No. 13 of Chief State Sanitary Inspector of the RF dated 18.02.2008,
No. 7, approved by Resolution No. 17 of Chief State Sanitary Inspector of the RF dated 05.03.2008,
No. 8, approved by Resolution No. 26 of Chief State Sanitary Inspector of the RF dated 21.04.2008,

No. 9, approved by Resolution No. 30 of Chief State Sanitary Inspector of the RF dated 23.05.2008,

No. 10, approved by Resolution No. 43 of Chief State Sanitary Inspector of the RF dated 16.07.2008,
Amendments No.11, approved by Resolution No. 56

of Chief State Sanitary Inspector of the RF dated 01.10.2008,

No. 12, approved by Resolution No. 58 of Chief State Sanitary Inspector of the RF dated 10.10.2008,

Amendment No. 13, approved by Resolution No. 69 of Chief State Sanitary Inspector of the RF dated 11.12.2008, Amendments No.14, approved by Resolution No. 28 of Chief State Sanitary Inspector of the RF dated 05.05.2009, Amendments and Additions No. 15, approved by Resolution No. 73

of Chief State Sanitary Inspector of the RF dated 08.12.2009,

Amendment No. 16, approved by Resolution No. 6

of Chief State Sanitary Inspector of the RF dated 27.01.2010, Amendments No.17, approved by Resolution No. 27 of Chief State Sanitary Inspector of the RF dated 21.04.2010,

Amendments and Additions No. 18, approved by Resolution No. 71 of Chief State Sanitary Inspector of the RF dated 28.06.2010.

Amendments No.19, approved by Resolution No. 102 of Chief State Sanitary Inspector of the RF dated 10.08.2010,

Amendments and Additions No. 21, approved by Resolution No. 145 of Chief State Sanitary Inspector of the RF dated 12.11.2010,

Amendments and Additions No. 22, approved by Resolution No. 177 of Chief State Sanitary Inspector of the RF dated 27.12.2010,

Amendments No.23, approved by Resolution No. 30 of Chief State Sanitary Inspector of the RF dated 11.04.2011, Amendment No. 24, approved by Resolution No. 79

of Chief State Sanitary Inspector of the RF dated 01.06.2011, as amended by Resolution No. 18 of Chief State Sanitary Inspector of the RF dated 31.05.2002)

On the basis of Federal Law No. 52-FL "On Sanitary and Epidemiological Well-being of Population" dated March 30, 1999 and Regulation on "State Sanitary and Epidemiological Control" approved by Resolution No. 554 of the Government of the Russian Federation dated July 24, 2000 <*>, hereby order:

<*> Collection of laws and regulations of the Russian Federation No. 31, Article 3295, dated 2000.

Enactment date of sanitary and epidemiological rules and regulations 'Hygienic Requirements for Safety and Nutrition Value of Food Products. Sanitary Rules and Regulations (SanPin) 2.3.2.1078-01' was postponed from July 1 to September 1, 2002 (Resolution of Chief State Sanitary Inspector of the RF No.18 dated 31.05.2002)

^{1.} To put in force the sanitary and epidemiological rules and regulations 'Hygienic Requirements for Safety and Nutrition Value of Food Products. SanPin 2.3.2.1078-01', approved by Chief State Sanitary Inspector of the RF on 06.11.2001, on July 1, 2002.

Approved
Chief State
Sanitary Inspector
of the Russian Federation
First Deputy Minister of
Health
of the Russian Federation
G. G. ONISHCHENKO
November 6, 2001

2.3.2. FOOD RAW MATERIAL AND FOOD PRODUCTS

HYGIENIC REQUIREMENTS FOR SAFETY AND NUTRITION VALUE OF FOOD PRODUCTS

SANITARY AND EPIDEMIOLOGICAL RULES AND REGULATIONS SanPin 2.3,2,1078-01

(as amended by Amendments No.1, approved by Resolution No. 27 of Chief State Sanitary Inspector of the RF dated 20.08.2002, Amendments and Additions No. 2, approved by Resolution No. 41 of Chief State Sanitary Inspector of the RF dated 15.04.2003, No. 5, approved by Resolution No. 42 of Chief State Sanitary Inspector of the RF dated 25.06.2007, No. 6, approved by Resolution No. 13 of Chief State Sanitary Inspector of the RF dated 18.02.2008, No. 7, approved by Resolution No. 17 of Chief State Sanitary Inspector of the RF dated 05.03.2008. No. 8, approved by Resolution No. 26 of Chief State Sanitary Inspector of the RF dated 21.04.2008. No. 9, approved by Resolution No. 30 of Chief State Sanitary Inspector of the RF dated 23.05.2008, No. 10, approved by Resolution No. 43 of Chief State Sanitary Inspector of the RF dated 16.07.2008, Amendments No.11, approved by Resolution No. 56 of Chief State Sanitary Inspector of the RF dated 01.10.2008, No. 12, approved by Resolution No. 58 of Chief State Sanitary Inspector of the RF dated 10.10.2008, Amendment No. 13, approved by Resolution No. 69 of Chief State Sanitary Inspector of the RF dated 11.12.2008, Amendments No.14, approved by Resolution No. 28 of Chief State Sanitary Inspector of the RF dated 05.05.2009, Amendments and Additions No. 15, approved by Resolution No. 73 of Chief State Sanitary Inspector of the RF dated 08.12.2009, Amendment No. 16, approved by Resolution No. 6 of Chief State Sanitary Inspector of the RF dated 27.01.2010, Amendments No.17, approved by Resolution No. 27 of Chief State Sanitary Inspector of the RF dated 21.04.2010, Amendments and Additions No. 18, approved by Resolution No. 71 of Chief State Sanitary Inspector of the RF dated 28.06.2010, Amendments No.19, approved by Resolution No. 102 of Chief State Sanitary Inspector of the RF dated 10.08.2010. Amendments and Additions No. 21, approved by Resolution No. 145 of Chief State Sanitary Inspector of the RF dated 12.11.2010. Amendments and Additions No. 22, approved by Resolution No. 177 of Chief State Sanitary Inspector of the RF dated 27.12.2010. Amendments No.23, approved by Resolution No. 30 of Chief State Sanitary Inspector of the RF dated 11.04.2011, Amendment No. 24, approved by Resolution No. 79

I. Scope of Application

of Chief State Sanitary Inspector of the RF dated 01.06.2011)

- 1.1. Sanitary and epidemiological rules and regulations 'Hygienic Requirements for Safety and Nutrition Value of Food Products' (hereinafter referred to as the 'Sanitary Rules') set forth hygienic requirements for safety and nutrition value of food products for an individual as well as compliance requirements for the said regulations under manufacturing, importing and turnover of foodstuff.
- 1.2. These Sanitary Rules have been developed on the basis of Federal Laws 'On Sanitary and Epidemiological Well-being of Population' (Collection of laws and regulations of the Russian Federation

- No. 14, Article 1650, dated 1999), 'On Quality and Safety of Food Products' (Collection of laws and regulations of the Russian Federation No. 2, Article 150 dated 2000), 'On Radiation Safety of People' (Rossiyskaya Gazeta dated January 17, 1996), 'On Protection of Consumers' Rights' (Collection of laws and regulations of the Russian Federation No. 3, Article 140 dated 1996), 'Fundamentals of Legislation of the Russian Federation on Public Health Care' (Bulletin of the Congress of People's Deputies of the Russian Federation and the Supreme Council of the Russian Federation No. 33, Article 1318 dated 1993), Resolution of the Government of the Russian Federation No. 554 'On Approving the Regulation on State Sanitary and Epidemiological Service of the Russian Federation and Regulation on State Sanitary and Epidemiological Control' dated July 24, 2000 (Collection of laws and regulations of the Russian Federation No. 31, Article 3295 dated 2000).
- 1.3. Sanitary rules are designed for individuals, entrepreneurs and legal entities, the activity of which is carried out in the field of manufacturing, importing and turnover of foodstuff, provision of services in food retail business and public catering as well as for agencies and organizations of the State Sanitary and Epidemiological Service of the Russian Federation (hereinafter referred to as the "GosSanEpidemNadzor of Russia"), which carry out sanitary and epidemiological supervision and control.
- 1.4. Hygienic requirements for materials and items coming in contact with foodstuff shall be established by special sanitary and epidemiological rules and regulations.

II. General Provisions

- 2.1. Food products shall satisfy physiological needs of human beings in required substances and energy, meet demands generally placed on foodstuff with respect to organoleptic and physicochemical parameters and comply with requirements of regulatory documents as per permissible content of chemical, radiological, biologically active substances and their compounds, microorganisms and other biological organisms endangering health of current and future generations.
- (as amended by Amendments and Additions No. 2, approved by Resolution No. 41 of Chief State Sanitary Inspector of the RF dated 15.04.2003)
- 2.2. Foodstuff produced, imported and circulating in the territory of the Russian Federation shall comply with sanitary rules as per their safety and nutrition value.
- 2.3. Manufacturing, importing and turnover of food products which fail to comply with the requirements provided for by these Sanitary Rules shall be not permitted.
- 2.4. These Sanitary Rules requirements must be complied with when working out regulatory and technical documentation governing the issues of manufacturing, importing and turnover of foodstuff.
- 2.5. When developing new types of foodstuff, new manufacturing technology, packaging, storage, and transportation entrepreneurs and legal entities shall justify quality and safety requirements, requirements for maintaining quality and safety, develop programs of quality and safety in-process control, procedures of testing thereof, and set shelf life of such foodstuff.
- 2.6. Drafts of technical documents shall be subject to sanitary and epidemiological examination according to the established procedure.
- 2.7. Manufacturing of new food products in the territory of the Russian Federation and import of food products to the territory of the Russian Federation, which is carried out for the first time, shall be allowed only after their state registration in accordance with the established procedure.
- 2.8. Imported foodstuffs shall be subject to state registration prior to import thereof to the territory of the Russian Federation.
- 2.9. Manufacturing of foodstuff shall be carried out in compliance with regulatory and technical documents and shall be confirmed by foodstuff quality and safety certificates provided by the manufacturer (hereinafter referred to as the quality and safety certificate).
 - 2.10. Food products for public catering shall not require execution of a quality and safety certificate.
- 2.11. Compliance of foodstuffs and drafts of technical documents with sanitary rules shall be confirmed during sanitary and epidemiological compliance examination to be carried out according to the established procedure.
- 2.12. When the sanitary rules lack safety and nutrition value requirements for a specific type of a new food product or a food product imported for the first time the requirements shall be set during sanitary and epidemiological examination subject to the following parameters:
- established by the developer of a new type of product in the draft of the regulatory and/or technical document;
 - established by applicable sanitary rules for a product similar in its composition and properties;
 - required from the product in the country of its origin;
 - recommended by international organizations.
- 2.13. Foodstuff safety and nutrition value requirements shall be recorded in the sanitary and epidemiological opinion executed according to the established form, which shall be issued by authorities and departments of GosSanEpidemNadzor of Russia on the basis of results of sanitary and epidemiological examination.

2.14. Food raw material of plant origin compulsory requires information on pesticides used during cultivation of crop plants, fumigation of premises and packaging for their storage, pest control of food supply as well as the date of the last treatment using such pesticides.

Food raw material of animal origin compulsory requires information on usage (if any) of pesticides for control of ectoparasites or diseases of animals and fowl, for treating cattle-breading and poultry facilities, fish farming and water basing for fish reproduction as well as specification of pesticide and end date of its use.

- 2.15. Import, use and turnover of food raw material of animal and plant origin, which lacks information on the use of pesticides for its production, shall not be allowed.
- 2.16. Food raw material and foodstuffs shall be pre-packed and packaged into materials allowed to come into direct contact with food products, so that to ensure maintaining of quality and safety during storage, transportation, sale thereof, including with extended shelf-life.
- (Clause 2.16 as amended by Amendments and Additions No. 9, approved by Resolution No. 30 of Chief State Sanitary Inspector of the RF dated 23.05.2008)
- 2.17. Entrepreneurs and legal entities engaged in manufacturing and turnover of foodstuffs, provision of services in the field of foodstuff retail and public catering shall be obliged to provide customers or consumers as well as state control and supervision authorities with complete and credible information on quality and safety of foodstuffs, compliance with requirements of regulatory documents under manufacturing and turnover of foodstuff and provision of services in the field of retail trade and public catering.
- 2.18. For certain kinds of food products (baby food, dietary and specialized food products, probiotic products, food additives, biologically active food additives, foodstuffs containing components, produced with the use of genetically modified organisms (hereinafter referred to as the GMO), etc.) the following shall be specified:
- (as amended by Amendments and Additions No. 2, approved by Resolution No. 41 of Chief State Sanitary Inspector of the RF dated 15.04.2003, No. 5, approved by Resolution No. 42 of Chief State Sanitary Inspector of the RF dated 25.06.2007)
- scope of application (for baby food, dietary and specialized food products, food additives, biologically active food additives);
- name of ingredients comprising food product, food additives, microbic cultures, starter cultures and substances used for foodstuffs enrichment; percentage of the daily physiological need, if such a need is foreseen, shall be specified for biologically active agents for biologically active food additives and enriched products;
 - recommendations for use, application, and, if required, contraindications for their use;
- for biologically active additives the following information shall obligatory be specified: 'Not a medicine';
- for food products produced with the use of GMO, including those not containing deoxyribonucleic acid (DNA) and proteins, the following information shall be specified: 'genetically modified product' or 'product received from genetically modified organisms' or 'product contains components from genetically modified organisms' (for foodstuffs containing 0.9% or less of components received with the use of GMO it is an incidental or technically non-removable impurity, and food products containing the said quantity of GMO components are not classified as products containing components received with the use of GMO) (as amended by Amendments and Additions No. 5, approved by Resolution No. 42 of Chief State Sanitary Inspector of the RF dated 25.06.2007)
 - information on state registration.

The paragraph is excluded from September 1, 2007. - Amendments and Additions No. 5, approved by Resolution No. 42 of Chief State Sanitary Inspector of the RF dated 25.06.2007,

- for food products received from/ or with the use of genetically modified organisms (bacteria, yeast and filamentous fungi, the genetic material of which was changed with the help of genetic engineering methods) (hereinafter referred to as the GMM), the following shall be specified:
- (the paragraph was introduced by Amendments and Additions No. 6, approved by Resolution No. 13 of Chief State Sanitary Inspector of the RF dated 18.02.2008)
- for products containing living GMM 'The product contains living genetically modified microorganisms';
- (the paragraph was introduced by Amendments and Additions No. 6, approved by Resolution No. 13 of Chief State Sanitary Inspector of the RF dated 18.02.2008)
- for products containing inviable GMM 'The product was received with the use of genetically modified microorganisms';
- (the paragraph was introduced by Amendments and Additions No. 6, approved by Resolution No. 13 of Chief State Sanitary Inspector of the RF dated 18.02.2008)
- for products freed from engineering GMM or for products produced with the use of components freed from engineering GMM 'The product contains components received with the use of genetically modified microorganisms';

(the paragraph was introduced by Amendments and Additions No. 6, approved by Resolution No. 13 of Chief State Sanitary Inspector of the RF dated 18.02.2008)

- for food products produced with the use of technologies, allowing to receive them from the raw material, received without the use of pesticides or other plant protecting agents, chemical fertilizers, animal growth stimulants and feeding stimulants, antibiotics, hormonal agents, veterinary drugs, GMO, not treated with exposure to ionizing radiation and meeting these sanitary rules (hereinafter referred to as organic products), the following shall be specified: 'organic product';

(the paragraph was introduced by Amendments and Additions No. 8, approved by Resolution No. 26 of Chief State Sanitary Inspector of the RF dated 21.04.2008 N 26)

- for specialized food products for sportsmen, possessing the set nutritional and energy value and directed effectiveness, consisting of a set of nutrients or separate types of nutrients, the following shall be specified: 'specialized food product for sportsmen';

(the paragraph was introduced by Amendments No. 14, approved by Resolution No. 28 of Chief State Sanitary Inspector of the RF dated 05.05.2009)

- for specialized food products for sportsmen the following additional information shall be printed on the consumer packaging: information on nutrition and energy value of the product, share of the physiological need; recommended dosages, methods of preparation (if necessary), conditions and length of usage.

(the paragraph was introduced by Amendments No. 14, approved by Resolution No. 28 of Chief State Sanitary Inspector of the RF dated 05.05.2009)

- for meat of slaughter animals and poultry meat, edible offal of slaughter animals and poultry, as well as slaughter animals meat and poultry meat, contained in all types of food products, heat treatment type - 'chilling' (chilled meat includes: meat of slaughter animals, obtained directly after slaughter, and its offal, chilled to 0 °C to +4 °C in the muscles, with unmoistened surface, and a drying up crust; poultry meat obtained directly after slaughter and its offal chilled to 0 °C - +4 °C in the muscles);

(the paragraph was introduced by Amendments and Additions No. 9, approved by Resolution No. 30 of Chief State Sanitary Inspector of the RF dated 23.05.2008)

- for food products enriched with vitamins and mineral substances the following shall be specified: 'food product enriched with vitamins and/ or mineral substances'.

(the paragraph was introduced by Amendments and Additions No. 22, approved by Resolution No. 177 of Chief State Sanitary Inspector of the RF dated 27.12.2010)

Marking printed on the consumer packaging, wrapping of fish products shall contain additional information regarding the homogeneous food fish products of the following groups:

- frozen fish products:
- a) glazed net mass shall be given without the glaze mass;
- b) produced from frozen fish products information on refreezing;
- frozen salted and pickled fish products words 'Frozen products'.

(the paragraph was introduced by Amendments No. 17, approved by Resolution No. 27 of Chief State Sanitary Inspector of the RF dated 21.04.2010)

ConsultantPlus: note:

For references related to quality and safety of food products see also Federal Law No. 29-FZ dated 02.01.2000.

2.19. Terms "dietary", "medical", "preventive" "baby", probiotic product" or their equivalents in designation of foodstuffs, in consumer packaging information and packaging inserts for the product shall be used in accordance with the established procedure.

(as amended by Amendments and Additions No. 2, approved by Resolution No. 41 of Chief State Sanitary Inspector of the RF dated 15.04.2003)

The term 'green product' as well as other terms not having legal or scientific grounding must not be used in names and in consumer packaging information printed on the specialised food product. (the paragraph was introduced by Amendments No. 14, approved by Resolution No. 28 of Chief State

(the paragraph was introduced by Amendments No. 14, approved by Resolution No. 28 of Chief State Sanitary Inspector of the RF dated 05.05.2009)

2.20. When manufacturing food raw material of animal origin the use of feed additives, animal growth-promoting substances, pharmaceuticals, drugs for treating animals and fowl as well as preparations for treating premises for their keeping which have not undergone sanitary and epidemiological examination and state registration according to the established procedure shall be prohibited.

(as amended by Amendments and Additions No. 2, approved by Resolution No. 41 of Chief State Sanitary Inspector of the RF dated 15.04.2003)

2.21. Foodstuffs containing feed additives, animal growth-promoting substances (including hormonal agents), drugs, pesticides, agrochemicals which have not undergone sanitary and epidemiological examination and state registration according to the established procedure shall not be liable to import, manufacturing and turnover in the territory of the Russian Federation. Their recycling or destruction shall be carried out according to the established procedure.

- 2.22. In-process control and state sanitary and epidemiological surveillance and monitoring shall be exercised in respect of compliance of food products with requirements for safety and nutrition value.
- 2.23. Individual entrepreneurs and legal entities engaged in production, import and turnover of food products must carry out in-process control including laboratory analysis and testing of foodstuff safety and nutrition value indexes as per compliance with requirements of these Sanitary Rules according to sanitary rules of a company and carrying out of in-process control.
- 2.24. Individual entrepreneurs and legal entities engaged in manufacturing and turnover of food products upon the results of carrying out of measures aimed at ensuring quality and safety of foodstuffs, compliance with requirements of regulatory and technical documents including carrying out of in-process control shall receive quality and safety certificate for every batch of food products.
- 2.25. Individual entrepreneurs and legal entities engaged in manufacturing and turnover of food products shall carry out laboratory analysis and testing independently or with engagement of laboratories accredited according to the established procedure.
- 2.26. For conducting laboratory analysis and testing of quality and safety parameters of food products only those techniques and methods will be allowed which are metrologically certified and comply with requirements for provision of uniformity of measurements and measuring accuracy characteristics, with methods of testing product samples and control of their parameters as well as those methods which comply with the said requirements and approved according to the established procedures.
- 2.27. Regulatory and technical documents for culture medium intended for control over microbiological indices of safety and nutrition value of foodstuffs shall be subject to sanitary and epidemiological examination according to the established procedure.
- 2.28. In case of unacceptable results of analysis even for one of the safety parameters, this parameter is subject to recurrent examination under double volume of sample capture taken from the same batch. The results of the second examination shall apply to the whole batch.
- 2.29. State sanitary and epidemiological surveillance and control over compliance of foodstuffs with these Sanitary Rules shall be carried out by agencies and departments of GosSanEpidemNadzor of Russia according to the established procedure.

III. Hygienic Requirements for Safety and Nutrition Value of Food Products

- 3.1. These Sanitary Rules shall establish hygienic requirements for safety of foodstuffs and their ability to satisfy physiological need of a man in major nutrient materials and energy.
- 3.2. Organoleptic properties of food products shall be defined by such properties as flavour, colour, smell and consistency, specific for each type of product and must meet traditionally established tastes and habits of people. Organoleptic properties of food products shall not be changed during storage, transportation and distribution.
- 3.3. Foodstuffs shall not have foreign odours, after-tastes, inclusions, differences in colour and consistency incidental to the given type of product.
- 3.4. Safety of foodstuffs regarding their microbiological and radiological safety as well as with respect to content of chemical contaminants shall be determined by their compliance with hygienic standards provided for by these Sanitary Rules (Annex 1).
- 3.5. Determination of parameters of safety and nutrition value of food products including biologically active food additives, mixed composition shall be carried out for basic type(s) of raw materials both by the mass fraction and by permissible levels of controlled contaminants.
- 3.6. Determination of safety parameters of dry, concentrated or diluted food products shall be carried out in terms of original product subject to content of dry substances in the raw and final product.
- 3.7. Hygienic standards shall apply to potentially hazardous chemical compounds and biological subjects the presence of which in foodstuffs must not exceed permissible levels of their content in the weight specified (volume) of product under examination.
- 3.8. The content of major chemical contaminants endangering human health shall be monitored in food products.

Hygienic requirements for permissible level of content of toxic elements shall apply to all types of food raw material and foodstuffs.

3.9. Content of mycotoxins - aflatoxin B1, deoxynivalenol (vomitoxin), zearalenone,T-2 toxin, patulin shall be controlled in food raw material and food products of plant origin, aflatoxin M1 – in milk and dairy products. Most dangerous contaminants are: for cereal products - deoxynivalenol; for nuts and oil seeds - aflatoxin B1; for fruit and vegetable derivatives - patulin.

The content of ochratoxin A shall be controlled in food grain and flour-cereal products. (the paragraph was introduced by Amendments No. 12, approved by Resolution No. 58 of Chief State Sanitary Inspector of the RF dated 10.10.2008)

3.10. Occurrence of mycotoxins in baby food and dietary products shall be excluded.

- 3.11. Pesticides shall be controlled in all types of food raw material and food products: hexachlorocyclohexane (alpha-, beta-, gamma isomers), DDT and its metabolites. Organomercury pesticides, 2, 4-D acid, its salts and esters shall be controlled in grain and its derivatives. 2, 4-D acid, its salts and esters shall also be controlled in fish and fish derived products.
- 3.12. Control of food raw material and food products as per the content of residual quantity of pesticides and agrochemicals including fumigants is based on information provided by the product manufacture (supplier) on use of pesticides and agrochemicals during the processes of manufacturing and storage of food products.
- 3.13. Sanitary and epidemiological examination of food raw material and foodstuffs containing pesticides shall be carried out in compliance with the applicable hygienic standards of pesticide content in the objects of environment.
- 3.14. Residual quantities of animal growth-promoting substances (including hormonal agents), pharmaceuticals (including antibiotics) used in cattle breeding for fattening up, treatment and prevention of diseases of livestock and fowl shall be controlled in food products of animal origin, including in baby food.

The following feed and medical antibiotics most commonly used in animal breeding and veterinary (Annex 1 of these Sanitary Rules) shall be controlled:

- bacitracin (bacitracin A,B,C, zincbacitracin);
- tetracycline group (tetracycline, oxytetracycline, chlortetracycline –sum of the original substances and their 4-epimers);
 - penicillin group (benzylpenicillin, phenoxymethylpenicillin, ampicillin, amoxicillin, penethamate);
 - streptomycin;
 - laevomycetin (chloramphenicol).
- (Clause 3.14 as amended by Amendments and Additions No. 22, approved by Resolution No. 177 of Chief State Sanitary Inspector of the RF dated 27.12.2010)
- 3.15. Control over the content of animal growth-promoting substances (including hormonal agents), pharmaceuticals (including antibiotics) used in cattle breeding for fattening up treatment and prevention of diseases of livestock and fowl, preparations not specified in Clause 3.14 shall be based on information provided by the product manufacture (supplier) on the preparations used during manufacturing and storage of such products (Annex 21 of these Sanitary Rules).
- (Clause 3.15 as amended by Amendments and Additions No. 22, approved by Resolution No. 177 of Chief State Sanitary Inspector of the RF dated 27.12.2010)
- 3.16. Polychlorinated biphenyls shall be controlled in fish, fish products; benzopyrene in grain, in smoked meat and fish products.
 - 3.17. Occurrence of benzopyrene in baby food and dietary products shall be excluded.
- 3.18. The following shall be controlled in separate food products: the content of nitrogen compounds: histamine in salmonids and scombrids (including the tuna group); nitrates in horticulture product; N- nitrosamines in fish and fish products, meat products and brewer's malt.

Phycotoxins shall be controlled in non-fish products (shell-fish, internal organs of crabs). (the paragraph was introduced by Amendments No. 12, approved by Resolution No. 58 of Chief State Sanitary Inspector of the RF dated 10.10.2008)

- 3.19. Indications of oxidative deterioration shall be controlled in fatty products: acid and peroxide value.
- 3.20. The content of radionuclides shall be controlled in food products.

(as amended by Amendments and Additions No. 2, approved by Resolution No. 41 of Chief State Sanitary Inspector of the RF dated 15.04.2003)

Radiological safety of foodstuffs for Caesium-137 and Strontium-90 shall be determined by their permissible levels of specific activity of radionuclides provided for by these Sanitary Rules. Compliance factor – B shall be used for determining compliance of foodstuffs with criteria of radiological safety, the value of it is calculated using results of measuring specific activity of Caesium-137 and Strontium-90 in a sample:

B = (A/H) 90Sr + (A/H) 137Cs, where A - is the value of specific activity of 90Sr and 137Cs in a food product (Bq/kg), H - is a permissible level of specific activity for 90Sr and 137Cs in the same product (Bq/kg).

(as amended by Amendments and Additions No. 2, approved by Resolution No. 41 of Chief State Sanitary Inspector of the RF dated 15.04.2003)

Radiological safety of foodstuffs contaminated with other radionuclides shall be determined by sanitary rules that specify radiological safety standards.

- 3.21. Presence of pathogenic microorganisms and pathogens of parasitic diseases, their toxins causing infectious and parasitic diseases or endangering human and animal health shall be excluded from food products.
- 3.22. Sanitary and epidemiological examination of meat and meat products, fish, shell fish, molluscs, amphibians, reptiles and products of their processing for the presence of pathogens of parasitic

diseases shall be carried out in accordance with sanitary rules for conducting parasitological control and parasitological parameters of safety (Annex 6).

- 3.23. Presence of pathogens of parasitic diseases in meat and meat products shall not be tolerated: bladder worms (cysticercus), larvae of trichinella and echinococci, cysts of sarcocystis and toxoplasma.
- 3.24. Presence of living larvae of parasites threatening human health shall not be tolerated in fish, shellfish, molluscs, amphibians, reptiles and products of their processing.

When finding living helminths larvae one should be governed by sanitary rules for parasitic diseases preventive measures.

- 3.25. Presence of helminths eggs and cysts of enteric pathogens shall not be tolerated in fresh and quick-frozen table greenery, vegetables, fruits and berries.
- 3.26. Hygienic standards for parasitological safety parameters of drinking water shall be determined in accordance with hygienic standards specified for quality of centralized drinking water supply systems.
- 3.27. Hygienic standards for microbiological parameters of safety and nutrition value of foodstuff shall include the following groups of microorganisms:
- sanitary-indicative ones, which include: number of mesophilic aerobic and facultative-anaerobic microorganisms (NMAFAnM), Coliform bacteria coliforms, bacteria of Enterobacteriaceae family, enterococcus;
- opportunistic pathogens, which include: E. coli, S. aureus, Proteus class bacteria, B. cereus and sulfite-reducing clostridia, Vibrio parahaemolyticus;
- pathogenic microorganisms, including salmonella and Listeria monocytogenes, Yersinia class bacteria;
 - spoilage microorganisms yeast and mold fungi, lactic-acid microorganisms;
- starter population microorganisms and probiotic microorganisms (lactic-acid microorganisms, propionate microorganisms, yeast, bifidobacteria, acidophilic bacteria and etc.) in products with controlled level of biotechnological flora and probiotic products.
- 3.28. Controlling of microbiological parameters of safety of foodstuff shall be carried out for majority groups of microorganisms under the alternative principle, i.e. the mass of a product is controlled, where coliforms, majority of opportunistic pathogens, as well as pathogenic microorganisms including Salmonella and Listeria monocytogenes shall be excluded. In other cases the standard reflects the number of colony-forming units in 1 g (ml) of the product (CFU/g, ml).
- 3.29. Criteria of safety of preserved food products (manufacturing sterility) is the absence of microorganisms capable of developing under temperature of storage specified for certain type of canned food and microorganisms and bacterial toxins endangering human health life in preserved food products (Annex 8).
- 3.30. Biologically active food additives are the source of food, minor, pro- and prebiotic natural (identical to natural) biologically active food substances (components), which provide their intake into a human body while eating or introducing into the composition of food products.

Biologically active substances, food components and products being their sources and used during manufacturing of biologically active food additives must ensure their efficiency and must not negatively affect human health (Annex 5a).

Biologically active substances, food components and products being their sources that pose - according to current research data – a hazard to human life and health when used as a component of biologically active food additives shall not be allowed for use when manufacturing biologically active food additives (Annex 5b).

- 3.31. The parameters of nutrition value shall be established in food products. Parameters of nutrition value of food products shall be established by a manufacturer (developer of technical documents) on the basis of analytical methods of research and/or with the use of calculating method subject to composition of a food product and data on composition of raw materials.
- 3.32. Specific foodstuffs as per parameters of nutrition value must comply with requirements of these Sanitary Rules (Annex 2).
- 3.33. Baby food must comply with physiological conditions of a child with account of his/her age and must be safe for baby health.
- 3.34. Baby food and its components, foodstuff for pregnant and breast feeding women (hereinafter referred to as the specialized products) must comply with hygienic standards of safety and nutrition value provided for by these Sanitary Rules (Annex 3)
- 3.35. Foodstuffs shall allow the use of food additives which according to the data of current research do not negatively affect human life and health as well as life and health of future generations (Annex 7).

Foodstuffs containing food additives not specified in Annex 7 shall not be allowed for manufacturing, import and distribution in the territory of the Russian Federation. Their recycling or destruction shall be carried out according to the established procedure.

- 3.36. Application of food additives and permissible levels of their content in food products are governed by sanitary rules for application of food additives.
- 3.37. It is not allowed to use poultry meat, except chilled, mechanically separated poultry meat, and collagen containing raw material from poultry meat for production of baby food (for all age groups, including organised children groups) dietary food products (curative and preventive), specialized food products for pregnant and nursing women, delicatessen from poultry meat (pastrami, raw smoked and raw cured products).

(Clause 3.37 was introduced by Amendments and Additions No. 9, approved by Resolution No. 30 of Chief State Sanitary Inspector of the RF dated 23.05.2008 as amended by Amendments and Additions No. 21, approved by Resolution No. 145 of Chief State Sanitary Inspector of the RF dated 12.11.2010)

- 3.38. It is not allowed to use poultry meat, except chilled, for production of chilled natural semi-manufactured products from poultry meat and food products from poultry meat without heat treatment. (Clause 3.38 as amended by Amendments and Additions No. 21, approved by Resolution No. 145 of Chief State Sanitary Inspector of the RF dated 12.11.2010)
- 3.39. Control over the content of melamine in milk and milk products is performed if there are reasonable assumptions about the possibility of its presence in the food raw materials. Food safety regarding melamine content shall be determined by its conformity with hygienic standards set by these Sanitary Rules (Annex 1 and Annex 3). Presence of melamine in food products shall not be tolerated. (Clause 3.39 was introduced by Amendments No. 11, approved by Resolution No. 56 of Chief State Sanitary Inspector of the RF dated 01.10.2008)
- 3.40. Control over the content of dioxins in food products shall be carried out in cases of deterioration of environmental situation associated with man-made and natural disasters, which lead to formation and penetration of dioxins in the environment; in case there are reasonable assumptions about the possibility of their presence in food raw materials. Food safety regarding dioxin content shall be determined by its conformity with hygienic standards set by these Sanitary Rules (Annex 1 and Annex 3). (Clause 3.40 was introduced by Amendments No. 12, approved by Resolution No. 58 of Chief State Sanitary Inspector of the RF dated 10.10.2008)
- 3.41. Food products must not contain melamine (detection limit shall be less than 1 mg/kg). The content of dioxins must not exceed the permissible levels from 0,000001 to 0,00000075 in the respective food groups, according to the requirements of Annex 1. Dioxins are not allowed in all baby food products. (Clause 3.41 was introduced by Amendment No. 13, approved by Resolution No. 69 of Chief State Sanitary Inspector of the RF dated 11.12.2008)
- 3.42. When treating fish fillet with the use of food additives water content in it after the taking off of glaze shall not exceed 86 per cent of the fish fillet.

Mass of glaze, applied to the frozen fish, fish products must not exceed 5% of net mass, mass of glaze, applied to shellfish products and products of their processing, must not exceed 7% of net mass, mass of glaze, applied to products produced from other (except shellfish) non-fish products (molluscs, invertebrates, algae), amphibians, reptiles and products of their processing, must not exceed 8% of net mass of the glazed frozen fish products.

(Clause 3.42 as amended by Amendments and Additions No. 22, approved by Resolution No. 177 of Chief State Sanitary Inspector of the RF dated 27.12.2010)

 IV. Organization of Activity of the Federal Service on Customers' Rights Protection and Human Wellbeing Surveillance for Carrying out State Registration and Assessment of Safety of Foods Products Derived from Genetically Modified Organisms of Plant Origin

(introduced by Amendments and Additions No. 6, approved by Resolution No. 13 of Chief State Sanitary Inspector of the RF dated 18.02.2008)

- 4.1. New food products derived from GMO of plant origin produced in the Russian Federation, as well as food products derived from GMO of plant origin, imported to the territory of the Russian Federation for the first time, shall be subject to State registration.
- 4.2. Federal Service on Customers' Rights Protection and Human Well-being Surveillance (hereinafter referred to as the Rospotrebnadzor) performs state registration of food products derived from GMO of plant origin (hereinafter referred to as the state registration of GMO).
- 4.3. State registration of GMO is carried out in accordance with Federal Law 29-FZ dated 02.01.2000 'On Quality and Safety of Food Products' (Collection of laws and regulations of the Russian Federation No.2, Article 150, dated 2000; No. 1, (part I), Article 2, dated 2002; No. 2, Article 167 dated 2003; No. 27 (part I), Article 2700, dated 2003; No.35, Article 3607, dated 2004; No. 19, Article 1752,

dated 2005; No. 50, Article 5242, dated 2005; No. 1, Article 10, dated 2006; No. 14, Article1458, dated 2006; No. 1 (part I), Article 29, dated 2007 and Resolution No. 988 of the Government of the Russian Federation dated 21.12.2000 'On State Registration of New Food Products, Materials and Goods' (Collection of laws and regulations of the Russian Federation No. 1 (part II), Article 124, dated 2001; No.18, Article1863, dated 2001; No. 3, Article 222, dated 2002; No.7, Article 653, dated 2003; No. 6, Article760, dated 2007; No. 10, Article1244, dated 2007; No.12, Article 1414, dated 2007).

- 4.4. For state registration of GMO individual entrepreneurs or organisations engaged in development and (or) the preparation for the production or importation of imported goods (hereinafter referred to as the applicant) shall submit documents to Rospotrebnadzor in accordance with the Resolution of the Government of the Russian Federation No. 988 dated 21.12.2000 'On State Registration of New Food Products, Materials and Goods'.
- 4.5. State registration of GMO includes, in particular, examination of results of medical-biological safety assessment carried out in authorized institutions, performing sanitary-epidemiological examination, toxicological, hygienic and other types of assessments for the purposes of state registration.
- 4.6. Medical-biological safety assessment of food products derived from GMO of plant origin includes:
 - Expert analysis and evaluation of data submitted by the applicant;
- Expert analysis of methods for detection, identification and quantitative measurement of GMO in food products;
 - Medical-genetic evaluation:
 - Evaluation of functional and technological properties;
 - Medical and biological examinations.
- 4.7. The list and volume of medical and biological examinations required to assess safety of food products derived from GMO of plant origin, shall be determined by the Expert (Scientific) Boards of the respective authorized organisations based on the analysis of documents submitted by the applicant, containing:
 - 1) Information allowing to identify GMO (type, variety, transformational event);
- 2) Information about the source of the parental organism (taxonomic characterization, the method of reproduction and distribution; data on toxic, allergenic and other unfavourable properties);
- 3) Information on the organisms-donors of the introduced genes (taxonomic characterization, history of use);
- 4) Information about the method of genetic modification (description of the method of modification, structure of the vector, structure of the insertion);
- 5) Information about GMO (description of properties acquired by the plant as a result of modification, description of the structure of the genetic construction (introduced or removed) and place of its localization, characterization of expression of embedded genes (expression during ontogeny plants, the intensity of expression of the structural components of plants, etc.), characterization of differences with the parental organism (method of reproduction, ability of cross pollination, resistance to stresses, etc.), characterization of genetic and phenotypic stability (it is necessary to submit data from studies of several generations of GMO), characterization of the ability to transfer genes to other organisms (plants, microorganisms);
 - 6) Results of safety assessment of food products derived from GMO of plant origin:
- Results of analysis of compositional equivalence (comparison of the chemical composition of GMO with the chemical composition of its traditional counterpart by the following parameters: protein content, amino acid composition, fat content, fatty acid composition, carbohydrate composition, vitamin content, the content of macro-and micronutrients, content of biologically active substances, allergens content, the content of anthropogenic and natural contaminants, the content of antinutrients and other substances that are characteristic of plant organisms of this type). The list of indices varies depending on the properties of the studied plant organism;
- The results of toxicological research (safety assessment of one or more proteins that determine appearance of the set properties in GMO (molecular and biochemical characterization of the protein, the presence or absence of homology with the toxins of protein nature, as well as with proteins with pharmacological or other biological activity; the study of stability of the protein during processing, storage, engineering processing; the impact of temperature and pH, possible modification and / or formation of stable protein fragments resulting from various influences; stability of the protein to processing with proteolytic enzymes in in vitro experiments; study of acute oral toxicity of the protein in the experiments with rodents; additional research):
- Results of the safety assessment of the native product (results of studies on rodents, young rapidly growing animals, if such studies were carried out; additional research);
- Results of allergy research (evaluation of allergenic properties of one or several proteins that determine appearance of the set properties in GMO (comparison with known allergens, using databases containing information on the three-dimensional structure and function of the known allergens and proteins related thereto); identification of potential allergenicity of proteins in immuno-chemical studies in

vitro using IgE, isolated from the serum of patients suffering from allergies; identification of resistance to proteolytic enzymes; screening studies with the use of blood serum of patients suffering from allergies; additional research (including in vivo);

- Evaluation of allergenic properties of the native product (comparison of a set of allergens of the studied GMO with a set of allergens of its traditional counterpart, etc.), if any information is available on the allergenic properties of the donor organism;
- Results of other studies (determination of food and biological value; use of sophisticated analytical techniques such as specialised technologies, etc.), in case these studies were conducted;
 - Results of control carried out in countries using GMO in the production of food products;
- 7) Information necessary for the implementation of state control (supervision) over food products derived from GMO of plant origin: identification and quantification methods of one or more transformation events, testing protocols, description of primers, standard samples of composition and properties;
 - 8) Materials on registration of food products derived from GMO of plant origin in other countries.
- 4.8. Information constituting a state, commercial and (or) official secret, obtained by Rospotrebnadzor in the exercise of its powers, shall not be subject to disclosure, except in cases established by the legislation of the Russian Federation.
- 4.9. Medical and biological evaluation of safety of food products, derived from GMO of plant origin, shall be carried out with the use of samples of the specified food products and their conventional counterparts, provided by the applicant.
- 4.10. Authorized organisations shall prepare and submit to Rospotrebnadzor reports (expert opinions) on the results of medical and biological safety assessment of GMO.
- 4.11. Rospotrebnadzor shall take a decision on state registration on the basis of the results of studying of documents and expert opinions and issue a certificate on state registration to the applicant.
- 4.12. Information about GMO that have undergone state registration shall be included into the State Register of Food Products, Materials, and Goods Allowed for Production in the Territory of the Russian Federation or Import into the Territory of the Russian Federation and Circulation thereof (hereinafter referred to as the State Register).

V. Organization of Activity of the Federal Service on Customers' Rights Protection and Human Well-being Surveillance when Performing Supervision (Control) over Circulation of Food Products Derived from/ or with the Use of Genetically Modified Microorganisms

(introduced by Amendments and Additions No. 6, approved by Resolution No. 13 of Chief State Sanitary Inspector of the RF dated 18.02.2008)

- 5.1. Food products derived from / or with the use of genetically modified microorganisms (hereinafter referred to as GMM), as well as products derived from / or with the use of natural biotechnological microorganisms, traditionally used in food industry and having a genetically-modified analogues (hereinafter referred to as GMA), which have undergone state registration in the established manner and included into the State Register or sanitary-epidemiological expertise and included into the Register of Certificates on Sanitary-Epidemiological Conformity (Non-Conformity) of activities (works, services), products, project documentation, requirements of state sanitary epidemiological rules and regulations (hereinafter referred to as the Register of Sanitary-Epidemiological Opinions), shall be monitored for compliance with sanitary rules and regulations for carrying out examinations of legal entities and individual entrepreneurs at the following stages:
 - imported from abroad;
 - production
 - storage and transportation;
 - sale.
- 5.2. Selecting food products which are subject to a sanitary-epidemiological examination regarding the presence of GMM (GMA), it is necessary to proceed from its belonging to one of three groups of products, production technology of which provides for the use of microorganisms of technological microflora or microorganisms-producers (Table 1).

Food Products Subject to Examination on the Content of Genetically Modified Microorganisms or Microorganisms Having Genetically Modified Analogues

Group of Products Depending on the Condition of their Technological Microflora or Microorganisms-Producers	Field of Application and Main Types of Products
Group I - food raw	Milk, fat oil industry and cheese production
material,food products and food components containing viable technological microflora	Starters, bacteria concentrate and biomass on the basis of pure cultures and natural symbiosis of lactic acid, probiotic, propionic acid (bifidobacteria, lactobacilli), acetic acid, leuconostoc, thermophilic streptococci and other microorganisms, yeast and molds for production
	Fermented milk products and yogurts, including baby and dietary food, probiotic, cottage cheese, sour cream, etc.
	Cheeses (all types)
	Acid cream butter and products based on it
	Children's fermented dried milk mixture, dried fermented milk products of mass consumption and dietary food.
	Margarine, mayonnaise
	Production of biologically active food additives
	BAA to food on the basis of probiotic microorganisms, biomass and bacteria concentrate for their production
	Plant-based BAA to food with addition of microorganisms-probiotics
	Meat and poultry processing industry
	Starting cultures for meat fermentation on the basis of lactic acid, propionic acid microorganisms, Micrococci, non-pathogenic Staphylococci, Pediococci, molds, yeast, etc.
	Smoked and dried meat and poultry products
	Fish processing industry
	Fermented fish products and preserves
	Bakery industry; production of fermented beverages, brewing, alcohol and starch industry, sugar production:
	Beer
	Kvas, drinks based on tea fungus, etc.
	Yeast
	Starters for bakery products based on lactic acid and other microorganisms for production of bakery products
	Microorganisms and yeast cultures, processing aids for directed fermentation of raw material in the production of alcohol, sugar, vinegar, etc.
	Horticultural industry and vegetable products processing
	Salted and pickled vegetables, mushrooms and cereals products and starter cultures for production thereof
	Pickled, salted, soaked vegetables and fruits
	Fermented products based on vegetable soybean milk
	Fermented soy and grain products (sauces, national dishes, etc.)
	Others
	Cultures of microorganisms for the use as processing aids.

	Producer strains for the production of ferments, vitamins and biological preserving agents etc
Group II -	Baking industry
food products containing	Bread, products from yeast and sour dough
inviable technological	Dairy industry
microflora	Heat treated fermented milk products
	Canned milk and milk containing products based on or containing fermented milk components, including for baby food
	Production of juices and juice drinks, winemaking:
	Clarified fruit and citrus juices, grape and fruit wines
	Production of biologically active additives to food, production of food concentrates, enriched and specialized products
	Extracts, lysates, proteins, protein products, nucleotide mixture on the basis of yeast and other inactivated microbial biomass
	Starch industry
	Modified starches obtained through microbial fermentation
Group III -	Enzyme agents for food industry
food components and substances, food additives	Vitamins (beta-carotene, riboflavin), fatty acids, amino acids
and micronutrients,	Flavouring agents, sweetening agents
produced with the use of	Preserving agents (nizin, lactic acid, etc.)
strain - producers, but exempt from them during	Processing aids for production of alcohol
technological process	Vinegar
	Edible organic acids (citric, tartaric, apple, etc.)
	Prebiotics (fructooligosaccharides), dextrin and other products of starch Industry
	Protein hydrolysates on the basis of milk raw materials, meat and poultry raw materials, raw fish materials and non-fish products, plant material, including soybean
	Glucose-galactose syrups

- 5.3. Control over food products from GMM allowed to be sold to population and to be used in food industry in the Russian Federation shall be exercised subject to using the information on food products obtained from or with the use of GMM, included into the State Register and the Register of Sanitary-Epidemiological Opinions in the established manner.
- 5.4. Control over food products from GMA, sold to population and used in food industry, shall be exercised taking into account the information about the availability of permits for the use of GMM in food industry (Table 2), as well as information about the cultures of microorganisms used in food industry and about their genetically modified analogues, potentially suitable for production of food products (Table 3).

GMM and Food Products Based on GMM, Allowed to be Used in Food Industry in the World

No	Type of Food Raw Material or Food Product	Microorganisms (Groups, Genera, Spec	ies), Used for Production thereof	Field of Application - in Production of:
•	or room round	Standard Natural Strains	GM Strains	Troduction of.
1	Starters, bacteria concentrate	, starter cultures for fermented products	and fermentation products	
	Yeast culture	Saccharomyces cerevisiae	Strains containing Amylase gene from Saccharomyces diastaticus	beer
2	Enzyme agents for the food in	ndustry, food additives		
	Hemicellulose	Aspergillus oryzae Aspergillus niger Bacillus subtilis Humicola insolens Trichoderma reesei	Aspergillus oryzae, contanign Hemicellulose gene and endo-1,4-a-xylanase from Aspergillus aculeatus Aspergillus oryzae, contanign Hemicellulose gene and endo-1,4-a-xylanase from Thermomyces lanuginosus	
	Xylanase	Aspergillus niger Aspergillus oryzae B. amyloliqueefaciens or subtilis B. licheniformis Trichoderma reesei or longibrachiatum Bacillus subtilis	Fusarium venetatum with the gene of Thermomyces lanuginosum Aspergillus oryzae d-Thermomyces lanuginosus Bacillus subtilis with the gene, coding xylanase from Bacillus subtilis Trichoderma reesei d-Trichoderma reesei Aspergillus niger var. awamori d-Aspergillus var. Aspergillus niger with the gene, coding production of endo-1,4-xylanase from Aspergillus niger	bakery products
	Monoacylglycerol lipase	Penicillium camembertii	-	

That yighy ceron in pase	Aspergillus oryzae Aspergillus niger Rhizopus arrhizus Rhizomucor miehei Rhizophus niveus Rhizophus oryzae	Aspergillus oryzae, containing triacylglycerol lipase gene from Humicola lanuginose Aspergillus oryzae d- Aspergillus oryzae Aspergillus oryzae d- Thermomyces lanuginosus	
Lactase (U-galactosidase)	Aspergillus niger Aspergillus oryzae Saccharomyces fragilis Saccharomyces lactis		
Invertase	Saccharomyces cerevisiae		Starches, syrups
Hemicellulose (multicomponent enzyme)	Aspergillus niger Bacillus subtilis Trichoderma reesei		
Inulinase	Aspergillus niger		
Maltogenase (maltogenic amylase)	B. subtilis	B. subtilis with B. stearothermophilus gene, B. subtilis with B. brevis gene	
	 B. stearothermophilus Bacillus licheniformis Aspergillus niger Bacillus amyloliquefaciens Microbacterium imperiale Rhizopus oryzae Thermococcales Pseudomonas fluorescens 	1. B. subtilis with alpha-amylase gene from B. megaterium, included in plasmid pCPC800 2. B. subtilis with alpha-amylase gene from B. stearothermophilus, included in plasmid pCPC720 Bacillus licheniformis d- Bacillus licheniformis Aspergillus niger d- Aspergillus niger Bacillus licheniformis with the gene, coding alpha-amylase from B. stearothermophilus Bacillus amyloliquefaciens with the gene, coding alpha-amylase from Bacillus amyloliquefaciens Bacillus amyloliquefaciens/ Bacillus subtilis Pseudomonas fluorescens with the gene, coding alpha-amylase from Thermococcales	bakery products, beverages, starches

Dextranase	Chaetomium erraticum Chaetomium gracile		
Fructosyltransferase	Aspergillus japonicus		
Glycogenase	B. stearothermophilus	-	bakery products
Aminoglucosidase	Aspergillus niger	Aspergillus niger, bearing the gene coding aminoglucosidase	bakery products
Carbohydrase	Aspergillus niger, var. Aspergillus awamori, var. Bacillus licheniformis Rhizopus oryzae, var. Saccharomyces spp.	-	
Catalase	Micrococcus lysodeikticus Aspergillus niger	Aspergillus niger - donor organism	cheeses

Cellulase	Penicillium funiculosum Trichoderma reesei Trichoderma viride Aspergillus niger Aspergillus aculeatus	Trichoderma reesei-d- Trichoderma reesei	
Chymosin A (rennin) for cheesemaking		E. coli K-12 IA 198, containing chemically synthesized coding DNA sequence identical to the bovine prochymosin A gene, included in vector PPFZ-87A	cheeses
Chymosin A for cheesemaking		Aspergillus niger var. awamori, containing bovine prochymosin gene (NRRZ3112) Vector - pgAMpR	cheeses
Chymosin B for cheesemaking	Kluyveromyces lactis	Kluyveromyces lactis (Dombr. Van del Walt) with bovine prochymosin gene, amplified on plasmid PUC18	cheeses
Chymosin B for cheesemaking		Trichoderma reesei, containing bovine prochymosin B gene	cheeses
B-glycanase	Aspergillus niger var. Trichoderma harzianum Trichoderma reesei or longibrachiatum Talaromyces emersonii B. subtilis or amyloliquefaciences Aspergillus aculeatus Disporotrichum dimorimorphosporum	Organism - donor Trichoderma sp. Bacillus sp. B. amyloliquefaciencis d- B. amyloliquefaciencis	
Xylose isomerase	B. coagulans, Streptomyces olivaceous, Streptomyces rubiginosus, Streptomyces violaceoniger		

Glucose oxidase and catalase	Aspergillus niger	Aspergillus niger d- Aspergillus niger	
Hemicellulose	Aspergillus niger	-	
Lipase	Aspergillus oryzae Rhizopus oryzae Rhizopus niveus Penicillium roquefortii Penicillium camembertii	Organism - donor Candida antarctica Rhizomucor spp. and Thermomyces spp. Aspergillus niger with lipase gene from Candida antarctica Aspergillus oryzae with lipase gene from Rhizomucor miehei	fat-and-oil products, triglycerides alcohol products, bakery products
	Mucor javanicus Rhizomucor miehei Fusarium oxysporum Termomyces lanuginosus	Aspergillus oryzae with lipase gene from Fusarium oxysporum Aspergillus oryzae with the gene, coding lipase from Termomyces lanuginosus	
Mixture of carboaminhydrase and protease	B. subtilis var.	-	
Pectinase	Aspergillus niger Rhizopus oryzae Aspergillus aculeatus Aspergillus oryzae	Aspergillus oryzae d- Aspergillus aculeatus Aspergillus niger d- Aspergillus niger	
Protease	Aspergillus niger Aspergillus oryzae. Aspergillus melleus Streptomyces fradias Bacillus licheniformis. B. amyloliquefaciens Bacillus subtilis Bacillus thermoprotyolyticus Bacillus stearothermophilus Rhizopus niveus Rhizopus oryzae	Organism - donor Rhizomucor Bacillus subtilis d- B. amyloliquefaciens Bacillus amyloliquefaciens d-B. amyloliquefaciens Aspergillus oryzae d- Rhizomucor miehei Bacillus amyloliquefaciens plasmid pUBnpr2, bearing neutral protease gene as a part of vector DNA pUB110 from Bacillus amyloliquefaciens	Aspartame

Pullulanase	Klebsiella alrogenes Bacillus acidopullulyticus Bacillus naganoensis Bacillus circulans Klebsiella planticola	Bacillus licheniformis d- Bacillus deramificans Bacillus subtilis d- Bacillus naganoensis Klebsiella planticola d- Klebsiella planticola	
Chymosin (rennin) for cheesemaking	B. cereus, Mucor miehei, Mucor pysillus, Rhizomucor miehei, Rhizomucor susillus B. mesentericus. Cryphonectria parasitica Aspergillus oryzae	Cryphonectria parasitica d- Cryphonectria parasitica Aspergillus oryzae d- Rhizomucor miehei	cheeses
Alpha- amylase+gluco-amylase	Aspergillus oryzae	-	starch Industry products
Beta-amylase	Aspergillus niger	-	
Alpha- acetolactate decarboxylase		B. subtilus UW-193 with alpha-decarboxylase gene from B. brevis on plasmid PUW 235	
Alpha- acetoacetate decarboxylase		B. subtilis with alpha-decarboxylase gene from B. brevis	
Hemicellulose	Aspergillus niger B. amyloliqueefaciens or subtilis	Organism - donor of Bacillus spp.	
Lactase	Aspergillus niger Aspergillus oryzae Saccharomyces spp. Candida pseudotropicalis Kluyveromyces marxianus var. lactis	Aspergillus oryzae with the gene of Myceliophthora thermophilus Kluyveromyces marxianus var. lactis d-Kluyveromyces marxianus var. lactis Aspergillus oryzae d-Aspergillus oryzae	

Xylanase	Aspergillus niger Aspergillus oryzae B. amyloliquefaciens or subtilis B. licheniformis Trichoderma reesei or longibrachiatum	Fusarium venetatum with the gene of Thermomyces lanuginosum Aspergillus oryzae d- Thermomyces lanuginosus Bacillus subtilis d- Bacillus subtilis Trichoderma reesei d- Trichoderma reesei Aspergillus niger var. awamori d-Aspergillus var. Aspergillus niger d- Aspergillus niger	
Invertase	Saccharomyces cerevisiae	-	
Glucoamylase	Lactobacillus amylovorus Aspergillus niger Aspergillus oryzae Rhizopus oryzae Rhizopus niveus Rhizopus delemar Penicillium funiculosum		
Aminopeptidase	Trichoderma reesei or longibrachiatum Aspergillus niger Aspergillus oryzae	Organism - donor Aspergillus spp.	
Arabinofuranosidase	Aspergillus niger	Organism - donor of Aspergillus niger	
Cyclodextrin glycosyltransferase	B. licheniformis	Organism - donor of Thermoanaerobacter	
Glucoamylase	Aspergillus niger	Organism - donor of Aspergillus spp.	

Glucose isomerase	Streptomyces livadans Streptomyces rubiginosus Actinoplanes missouriensis Streptomyces olivochromogenes Streptomyces murimus Streptomyces olivaceus Microbacterium arborescens Actinoplane missouriensis Bacillus coagulans	Streptomyces rubiginosus d- Streptomyces rubiginosus	
Hemicellulose	Aspergillus niger Trichoderma reesei Aspergillus aculeatus Aspergillus foetidus B. amyloliquefaciens or subtilis	Organism - donor of Bacillus spp.	
Malt amylase	B. amyloliquefaciens or subtilis	Organism - donor of Bacillus spp.	
Pektin liase	Aspergillus niger Trichoderma reesei or longibrachiatum	Organism - donor of Aspergillus spp.	
Pectinesterase	Trichoderma reesei or longibrachiatum Aspergillus aculeatus	Organism - donor of Aspergillus spp. Aspergillus oryzae with the gene, coding pectinesterase from Aspergillus aculeatus	
Phospholipase A	Trichoderma reesei or longibrachiatum	Organism - donor of Aspergillus spp.	
Phospholipase B	Trichoderma reesei or longibrachiatum	Organism - donor of Aspergillus spp.	
Phospholipase A2		Streptomyces violaceruber with phospholipase A2 gene of the same genera	Soya and egg yolk lectin hydrolysis

Phospholipase A2	Aspergillus niger	Aspergillus niger PLA-54 with the gene, coding phospholipase of pig pancreas from Aspergillus niger GAM-53 and DNA of pig pancreas Aspergillus niger PLA-54 with the gene, producing phospholipase A2 from Aspergillus niger GAM-53 (NRRL3122 Aspergillus niger)	bakery products, phospholipide hydrolysis
Phospholipase C		Pichia pastoris C with heterogeneous gene of phospholipase C	vegetable oils
Polygalactouronidase	Trichoderma reesei or longibrachiatum Aspergillus niger	Aspergillus niger EPG-102 with the gene, producing polygalactouronidase from Aspergillus niger GAM-53 from NRRL3122 Aspergillus niger	bakery products
Pullulanase	Bacillus licheniformis Bacillus subtilis Bacillus deramificans 18-IN T13 13 Klebsiella planticola	Organism - donor Bacillus spp. Klebsiella spp. B. subtilis with pullulanase gene from B. acidopullulyticus A164delta5 Bacillus subtilis with pullulanase gene Bacillus deramificans 18-INT13	beer
Asparaginase	Aspergillus niger	Aspergillus niger d- Aspergillus niger	Lowering of the level of asparagine in bread, cereal and potato products
Asparaginase	Aspergillus oryzae	A. oryzae with asparaginase gene from A. oryzae	
Urea amidolyase		Saccharomyces cerevisiae ECMo01 with an increased expression of urea amidolyase	Lowering of ethyl carbamate in fermented beverages

Glutaminase	Bacillus subtilis		
B-D-glucosidase	Aspergillus niger Trichoderma reesei		
Urease	Lactobacillus fermentum		
alpha-galactosidase	Morteirella vinaceae var. raffinoseutilizer	-	sugar from sugar beet
Feedstuff, micronutrients and	I food additives	•	
Riboflavin	Streptomyces griseus	B. subtilus with excess production of riboflavin	BAA to food, enriched products
Beta-carotene		Blakeslea trispora, received by means of co-fermentation of two strains of fungus(+) and (-)	BAA to food, enriched products
Nizin (preserving agent E- 234)	Lactococcus lactis subs. lactis	Lactococcus lactis subs. lactis with the gene, coding stability to bacteriophages	cheese spreads, canned vegetables
Lycopene	Blakeslea trispora	Recombinant strain	BAA to food, enriched products
Citric acid	Candida guilliermondii Candida lipolytica Aspergillus niger	Recombinant strain	

Microorganisms of Natural Origin(Groups, Genera, Species)	Genetically Modified Analogues
Mesophilic	Lactococcus
Lactococcus lactis subsp. lactis	Bacteria of the genus Lactococcus, containing DNA sequence of Lactococcus, coding: 1. resistance to bacteriophages, 2. diacetyl production, 3. beta-galactosidase production, 4. aminopeptidase production, 5. peptidases production by genes of Propionibacterium shermani, 6. alanine racemase production,
Lactococcus lactis subsp. cremoris	-
Lactococcus lactis subsp. lactis biovar diacetilactis	-
Leuco	nostocs
Leuconostoc lactis	-
Leuconostoc mesenteroides subsp. dextranicum	-
Leuconostoc mesenteroides subsp. mesenteroides	-
	c streptococci
Streptococcus salivarius	-
Streptococcus thermophilus	S. thermophilus, possessing the gene of endoplasmic reticulum synthesis; S. thermophilus, possessing the gene of chloramphenicol-acetyltransferase
Bacteria of	the genus Lactobacillus
Lactobacillus acidophilus	Strains, possessing plasmids from Lactobacillus acidophilus, coding production of bacteriocins
Lactobacillus alimentarius	-
Lactobacillus amylovorus	Organism - donor of Aspergillus spp.
Lactobacillus bavaricus	-
Lactobacillus brevis	-
Lactobacillus buchneri	-

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Lactobacillus casei	Strains, possessing the genes from Lactobacillus spp., controlling stability of starter cultures to low pH value
Lactobacillus casei	1. L. casei with the gene of beta- galactosidase E. coli 2 L. casei with Alkoholdehydrogenase gene Zymomonas mobilis 3. L. casei with beta-lactamase gene E. coli 4. L. casei with cholesterol oxidase gene Streptomyces spp.
Lactobacillus casei, subsp. rhamnosus GG	5 -
Lactobacillus coryneformis	
Lactobacillus curvatus	Recombinant strain for biopreservation of meat
Lactobacillus crispatus	
Lactobacillus delbruecki subsp. delbrueckii	-
Lactobacillus delbrueckii subsp. Bulgaricus	-
Lactobacillus delbrueckii subsp. Lactis	-
Lactobacillus farciminis	-
Lactobacillus fermentum	-
Lactobacillus gasseri	1. L. gasseri with msd gene from E. coli for production of superoxide dismutase 2. L. gasseri with temperate phage introduced into the chromosome 3. Strains containing endonuclease gene from Clostridium thermocellum
Lactobacillus johnsonii	Strains containing endonuclease gene from Clostridium thermocellum
Lactobacillus helveticus	Strains of the same genera with endopeptidase production for reducing the bitter taste in the process of cheese ripening
Lactobacillus heterohiochi (= L. fructivorans)	
Lactobacillus hilgardii	-
Lactobacillus xylosus (= L. lactis subsp. lactis)	Strains containing genes for accelerated ripening of cheeses from Lactobacillus spp.

Lactobacillus zeae (= L. casei subsp casei/L. rhamnosus)).
Lactobacillus sakei subsp. sakei	Strain with production of bacteriocin saccacin
Lactobacillus sakei subsp. carnosus (= L. curvatus)	Strains containing Catalase gene from Lactobacillus sakei
Lactobacillus salivarius	-
Lactobacillus sanfrancisco (= L. sanfranciscensis)	-
Lactobacillus sanfranciscensis (= L. sanfrancisco)	
Lactobacillus kefirgranum	
Lactobacillus kefiri	-
Lactobacillus lactis	-
Lactobacillus paracasei	-
Lactobacillus pentosus	-
Lactobacillus plantarum	Strains of the same genera with: 1. Deletion of the gene, coding conjugation hydrolysis of bile acids 2. With alpha amylase gene from L. amylovorus 3. With deletion of the gene, coding alanine racemase 4. Producing bacteriocins
Lactobacillus reuteri	Strains containing Xylanase gene from Neocallimastix patriciarum, beta-glucanase gene from Fibrobacter succinogenes, Cellulase gene from Piromyces rhizinflata
Lactobacillus rhamnosus	-
Staphylococcus, Ped	diococci, Brevibacteria:
Staphylococcus carnosus	
Staphylococcus carnosus subsp. carnosus	_
Staphylococcus carnosus subsp. utili (= S. carnosus)	is-
Staphylococcus equorum	-
Staphylococcus sciuri	-
Staphylococcus xylosus	-
Staphylococcus vitulinus (= S. pulveri)	-
Brevibacterium casei	-

Brevibacterium linens	-
Pediococcus acidilactici	-
Pediococcus pentosaceus	-
Coryne	bacterium
Corymbacterium ammoniagenes	-
Corynebacterium flavescens	-
Ente	rococcus
Enterococcus durans	-
Enterococcus faecium	-
Arth	robacter
Arthrobacter nicotianae	-
Acet	
Acetobacter xylinum	-
Acetobacter suboxydans	-
Acetobacter aceti	-
Propio	nibacterium
Propionibacterium acidipropionici	-
Propionibacterium arabinosum	-
	Decembinant studin of Duspissibastanium
Propionibacterium freudenreichii subsp. freudenreichii	Recombinant strain of Propionibacterium freudenreichii with increased production of propionicin T1
Propionibacterium freudenreichii subsp. shermanii	_
Propionibacterium thoenii	-
Bifido	bacterium
Bifidobacterium adolescentis	_
Bifidobacterium animalis	-
Bifidobacterium bifidum	_
Bifidobacterium breve	-
Bifidobacterium infantis	-
Bifidobacterium lactis = (B. animalis)	-
Bifidobacterium longum <**>	Strains with vector from B. longum- Escherichia coli based on replicons

Bifidobacterium pseudolongum	-
Ва	cillus
B. cereus	-
Bacillus coagulans (= obsolete Lactobacillus sporogenes)	Organism - donor of genes for production of bacteriocin coagulin
Bacillus licheniformis	Organism - donor of Thermoanaerobacter
B. mesentericus	-
B. subtilis or amyloliquefaciences	Organism - donor
B. amyloliquefaciences	B. amyloliquefaciences with the gene of Subtilisin from B. subtilis
Bacillus amyloliquefaciencs	Bacillus amyloliquefaciencs 1. with the gene, coding alpha amylase from Bacillus amyloliquefaciencs 2. With neutral protease gene from Bacillus amyloliquefaciencs
Bacillus licheniformis	B. licheniformis with alpha-amylase gene from B. stearothermophilus
Bacillus licheniformis	B. licheniformis with thermoresistant alpha-amylase gene from B. licheniformis
Bacillus licheniformis	Bacillus licheniformis with the gene, coding pullulanase from Bacillus deramificans
B. subtilis	B. subtilus UW-193 with alphadecarboxylase gene from B. brevis on plasmid PUW 235
B. subtilis	B. subtilis with alpha-decarboxylase gene from B. brevis
B. subtilis	Bacillus subtilis with the gene, coding pullulanase from Bacillus deramificans
B. subtilis	B. subtilus with excess production of riboflavin
B. subtilis	B. subtilis with the gene B. stearothermophilus, B. subtilis with the gene B. brevis
Bacillus subtilis	B. subtilis with pullulanase gene from B. acidopullulyticus
B. subtilis item F	B. subtilis with alpha-amylase gene from B. megaterium, included in plasmid pCPC800 2. B. subtilis with alpha-amylase gene from B. stearothermophilus, included in plasmid pCPC72 0

B. stearothermophilus	
B. thermortotyolyticus	_
М	licrococcus
Micrococcus varians (= Kucuria varians)	_
Micrococcus lysodeicticus	-
	E. coli
E. coli	E. coli K-12 IA 198, containing chemically synthesized coding DNA sequence identical to the boving prochymosin A gene, included in vector PPFZ-87A
К	lebsiella
Klebsiella alrogenes	-
Klebsiella planticola	Klebsiella spp.
Thermococcales	Pseudomonas fluorescens with alpha- amylase gene
Filamentous	s fungi (moulds)
	Fusarium
Fusarium solani	-
Fusarium venetatum	Fusarium venetatum with Thermomyces lanuginosum gene Organism - donor of Aspergillus sp. Thermomyces sp. Trichoderma spp., Bacillus spp.
A	 spergillus
Aspergillus niger	-
Aspergillus niger	Aspergillus niger var. awamori containing bovine prochymosin gene (NRRZ3112) Vector- pgAMpR A. niger with lipase gene from Candida antarctica Aspergillus niger, bearing the gene coding aminoglucosidase of the strain of the same genera Aspergillus niger 1. With Aspergillus niger genes coding lysophospholipase 2. With Aspergillus niger genes coding production of endo-1,4 xylanase 3. with acetoamylase genes from A nidulans 4. with genes, coding phospholipase of pig pancreas from Aspergillus niger 5. with Aspergillus niger genes coding production of

	endopolygalacturonase
	6. with Aspergillus niger genes
	coding production of asparaginase
	7. with Aspergillus niger genes
	coding production of pecti
	methylesterase
	8. with Aspergillus niger genes
	coding production of glucoamylase
3. amyloliquefaciens or subtilis	Organism - donor of Bacillus spp.
Aspergillus awamori	-
Aspergillus oryzae	Strains of Aspergillus oryzae
	possessing the following genes:
	1. hemicellulase-xylanase from the first f
	Aspergillus aculeatus and Thermomyce
	lanuginosus
	2. triacylglycerol lipase from Humicol
	lanuginosa
	3. lactase from Myceliophthor
	thermophilus
	4. phospholipase A1 from Fusariu
	venetatum
	5. glucose oxidase from Aspergillu
	niger
	6. lipase from Thermomyces lanuginosu
	and Fusarium oxysporum
	7. proteinase aspartat from Rhizomuco
	miehei
	8. exopeptidase from Aspergillus sojae
Aspergillus oryzae	A. oryzae with asparaginase gene fro
	A. oryzae
Aspergillus oryzae var.	Organism - donor of Candida sp.
	Rhizomucor sp. Thermomyces sp.
Pen	icillium
Penicillium album (= P. caseicolum	1, -
P.candidum, or P. camembertii)	
Penicillium camembertii	•
(= P. caseicolum, P. candidum, or	
2. album)	
Penicillium candidum	
(= P. caseicolum, P. camembertii,	
P. album)	
Penicillium funiculosum	
Penicillium roquefortii	-
1702+	
vert	LOTITUM
Verticillium lecanii	-
Ψгί	choderma
Tri	Choderma Organism - donor of the same species

longibrachiatum	
Trichoderma reesei	T. reesei, possessing boving prochymosin B gene
Trichoderma harzianum	Organism - donor
Tric	Chothecium
Trichothecium domesticum	-
Hu	 umicola
Humicola insolens	-
Rh	izopus
Rhizopus arrhizus	-
Rhizophus niveus	-
Rhizophus oryzae	-
Rhizopus oryzae, var. Sacharomyces	-
spp.	
	Mucor
Mucor miehei	-
Mucor pusillus	-
Mucor lusitanicus Institute of Microbiology, Russian Academy of Sciences (INMI)	-
Rh	nizomucor
Rhizomucor miehei	-
Rhizomucor pusillus	-
Stre	eptomyces
Streptomyces olivaceous	-
Streptomyces rubiginosus	Organism - donor of Streptomyces spp. and Acinoplanes spp.
Streptomyces rubiginosus	Streptomyces rubiginosus with the generated producing immobilized glucose isomerased from Streptomyces rubiginosus
Streptomyces violaceoniger	S. violaceoniger with the gene received from the same genera, coding phospholipase A2
Streptomyces fradias	
Streptomyces livadans	Organism - donor of Streptomyces spp. Acinoplanes spp.
Acti	inoplanes

Actinoplanes missiouriensis	-
	-
I	3lakeslea
Blakeslea trispora	Blakeslea trispora, obtained by means of co-fermentation of two strains of fungus (+) and (-)
2	Yeast
Sac	charomyces
Saccharomyces bayanus	-
Saccharomyces cerevisiae	Strains containing Amylase gene from Saccharomyces diastaticus
Saccharomyces cerevisiae	S. cerevisieae Y-1986 with alpha- amylase gene from B. licheniformis
Saccharomyces cerevisiae	S. cerevisiae ECMo01 with an increased expression of urea amidolyase
Saccharomyces cerevisiae subsp. boulardii	-
Saccharomyces florentius	-
Saccharomyces fragilis	-
Saccharomyces lactis	-
Saccharomyces unisporus	-
Klu	yveromyces
Kluyveromyces fragilis (= Kluyveromyces marxianus)	-
Kluyveromyces lactis	Kluyvenomyces lactis (Dombr. Van del Walt) with bovine prochymosin gene, amplified on plasmid PUC18 for enzymatic agent production
Kluyveromyces marxianus (= Kluyveromyces fragilis)	-
I	Hansenula
Hansenula mrakii (= Williopsis mrakii)	-
(Candida
Candida famata	-
Candida kefyr (= C. pseudotropicalis)	-
Candida friedricchi	-

Candida holmii	-
Candida krusei	-
Candida pseudotropicalis (= C. kefyr)	-
Candida utilis	_
Candida valida	-
Debaryomyces	
Debaryomyces hansenii	-
Geotrichum	
Geotrichum candidum	-
Willi	opsis
Williopsis mrakii (= Hansenula mrakii)	-
Pichia	
Pichia pastoris	-
Carnobacterium maltaromaticum	-
Morteirella vinaceae var. raffinoseutilizer	-
Pseudomonas fluorescens	Pseudomonas fluorescens with alpha- amylase gene from Thermococcales

- '-' no analogues.
- 5.5. The global production volumes, the use in food industry and import of GMM and GMA based products into the Russian Federation shall be taken into consideration when carrying out examinations. The list of such products is given in descending order:
 - a) based on GMM:
- enzymatic agents;
- GMM strains-producers of food substances and food additives for cheesemaking, starch industry, bread-making, production of beverages and strong alcohol products;
- GMM strains of yeast for brewing, winemaking, strong alcohol production;
 - b) based on GMA:
- starters, starter, probiotic, yeast cultures used as raw material;
- cheeses, fermented milk and probiotic products (BAA to food), fermented sausages and meat products;
- beer, kvas and fermentation beverages;
- acid cream butter, margarine, mayonnaise;
- fermented soy-based products;
- fermented products from fruits and vegetables;
- enzymatic agents;
- strains-producers of food substances and food additives;
- products from yeast and sour dough;
- protein-based products on the basis of yeast and other inactivated microbial biomass;
- modified starches obtained by means of microbial fermentation;
- clarified fruit and citrus juices, grape and fruit wines.
- 5.6. Sanitary and epidemiological examination of food products from/ or with the use of GMM and GMA provides for:

- a) examination of accompanying documentation;
- b) laboratory control over products samples regarding the presence or absence of GMM, GMM selective markers (nucleotide sequences used as a label for genetic manipulation as part of genetic structures) and / or over target genes of GMM, as well as products of expression of target genes of GMM or GMA. Laboratory control is not required subject to absolute compliance with established requirements based on data on examination of the supporting documents;
- c) additional laboratory control over products samples (if required) regarding the presence of any other signs that indicate the presence in food products of GMM (GMA) with modified properties due to instability of GMM and / or unwanted recombinations of genes, and unfavourable to consumers (transmissible antibiotic resistance, pathogenic factors of GMM or GMA; plasmid DNA of GMA; presence of toxicity, genotoxicity, residual quantities of antibiotics, mycotoxins and other foreign substances in food products derived from / or with the use of GMM and GMA).
- 5.6.1. Further examination of food products shall be carried out in case any discrepancies appear between the results of laboratory examinations and information provided in the documents; in case it is known about some deviations in the technological process, complaints, and reported disease caused by food products with GMM and GMA. In such cases samples of food products shall be sent to research institutes authorised for carrying out the research and testing centres that are accredited in this field.
- 5.6.2. In case additional examinations are requested most likely potential risk factors of GMM in food products (Table 7) shall be taken into account, which are connected with the peculiarities of specific genera and species of parental strains of microorganisms.
- 5.6.3. Laboratory control of GMM (GMA) and samples of food products derived from / or with the use of GMM (GMA) shall be based on a specially developed methodology and testing algorithms by means of microbiological, molecular-genetic, hygienic examinations in accordance with the approved methods.
- 5.6.4. Sanitary and epidemiological examination of food products from GMM and GMA released from technological micfroflora, and not containing protein or DNA, for the purpose of stating the presence or absence of DNA, GMM or GMA, shall be carried out by means of laboratory examinations (molecular and genetic tests) on the basis of submitted documentation; if necessary a request for strains-producers and reference-strains of GMM or GMA can be made.
- 5.7. Measures for performing state sanitary and epidemiological surveillance and control over food products derived from / or with the use of GMM or GMA when importing from abroad, shall include:
- 5.7.1. An official of the controlling authority shall verify whether the owner of the cargo (freight carrier) possesses the accompanying documentation, which should include:
- Certificate of state registration of the products or sanitary-epidemiological conclusion on its compliance with the sanitary rules;
- Security certificate of the country of origin;
- Declaration on the presence of GMM in the batch of food products:
- label on consumer packaging indicating the presence of information about the content of GMM in the given type of product taking into account Clause 2.18 of the present Sanitary Rules.
- 5.7.2. In case of identification of a breach of sanitary legislation, which threatens the appearance and spread of infectious diseases and mass non-infectious diseases (poisoning), Chief State Sanitary Inspector (Deputy Chief State Sanitary Inspector) is entitled to take measures, as provided for by law, to suspend the import of products into the territory of the Russian Federation in case such products do not have sanitary-epidemiological conclusion on compliance thereof with sanitary rules or not registered in the manner provided for by the legislation of the Russian Federation.
- 5.7.3. Sanitary and epidemiological examination of food products produced from /or with the use of GMM and GMA when they are imported from abroad shall be carried out in the established manner.
- 5.7.4. In case of import of food products into the territory of the Russian Federation, the scope of application and types of which are provided for in Table 1, selective laboratory examinations shall be carried out in order to identify the presence or absence of GMM (and / or target genes of GMM, products of expression of target genes of GMM, selective markers of GMM), and if necessary (Clause 5.6.1) examination of the presence of adverse properties for the consumers of GMM or GMA, isolated from the products (for group III products in the products themselves or with reference strains of their producers).
- 5.8. In case of production of food products derived from / or with the use of GMM and GMA the presence of regulatory and technical documentation for such products approved in the established manner shall be verified.
- 5.8.1. For manufacturing and processing of food products derived from or with the use of GMM and GMA, only food raw materials and food products can be used that have passed state registration or sanitary-epidemiological examination for compliance with sanitary rules and which are included into the State Register and the Register of Sanitary-Epidemiological Opinions
- 5.8.2. Sanitary and epidemiological examination of food products derived from / or with the use of GMM and GMA shall be carried out in the established manner at the process of manufacturing.
- 5.8.3. State sanitary and epidemiological control during the process of manufacturing of food products, derived from / or with the use of GMM and GMA ,shall be carried out be means of:

- a) examination of technological instructions for production (hereinafter referred to as the TI), which establish requirements for the processes of manufacturing, inspection, packaging, marking of products at a particular plant, including drafts of label prints on consumer packagings (package inserts, instructions for use) as well as draft production plans with production control programme;
- b) selective laboratory examinations of samples of raw materials and foodstuffs from the pilot batches of products;
- c) examination of production conditions (at plants manufacturing viable GMM or GMA or using viable GMM or GMA in the technological process of food production).
- 5.8.4. Presence of requirements and parameters governing the use of GMM or GMA in the technological process shall be controlled in the process of examination of TI for a particular type of food product:
- a) in the section 'Technical Requirements' information about the presence or absence in the raw material and components of this type of product, their generic and specific belonging;
- b) in the section 'Methods of Control' a description of methods of analysis (references to approved methods) of microorganisms of controlled technological microflora which should contain 1 g of food products and methods of identification of generic and specific belonging (in cases provided for by the regulatory and technical documentation the lack of living cells of strains-producers); in products derived from / or with the use of GMM the lack of genes of transmissible antibiotic resistance (selective markers of antibiotic resistance); if necessary the target genes of GMM, products of expression of target genes of GMM, as well as other methods of analysis, allowing to confirm the type and properties of GMM or GMA contained in the product;
- c) in the section "Marking" and on the label of consumer packaging information about the relevance of the product and GMM and information for consumers about the presence of GMM in the given type of product, taking into account Clause 2.18 of this Sanitary Rules;
- d) regarding production preparation description of the production control system, including incoming inspection of raw materials and components (presence of sanitary-epidemiological conclusions and other documents confirming their relation to the GMM and GMA), laboratory control (regarding the absence or presence of GMM (GMA) and / or selective markers of GMM, if necessary target genes of GMM, products of expression of target genes of GMM); at plants producing strains-producers of food substances additional control over production conditions, control over working area air, surfaces and equipment for the presence of living cells of GMM (GMA) producers.

ConsultantPlus: note:

The official text of the document obviously contains a misprint - Clause 5.7 has no Sub-clauses. Apparently Sub-clause 'b' of Clause 5.6 is meant.

- 5.8.5. While monitoring the production process food samples shall be selected from the pilot batch and laboratory test shall be carried out for determination of the presence of GMM and / or selective markers of GMM, and if necessary additional tests of products and raw materials in accordance with Clause 5.7 'b'.
- 5.8.6. Production examination shall be carried out by means of:
- a) conformity assessment of business units (laboratories, starter shops, shops or sites), working with living fermentation, starter, probiotic, yeast cultures and strains-producers of food substances and food additives, with the requirements of sanitary rules for the corresponding industries and, if necessary (at plants, generating strains-producers) with the requirements of sanitary rules for safety of working with microorganisms and for procedures of registration, storage, transfer and transportation of microorganisms;
- b) examination of programme of production control of products performed at the manufacturing plant monitoring control of GMO and GMA regarding meeting the requirements of sanitary rules for organization and exercising production control over compliance with sanitary rules and implementation of sanitary and epidemic (prevention) activities;
- c) examination of documentation for raw materials and components, food products, which are in production and expedition, regarding the records about the presence of GMM in technical specifications for the ingredient composition, in label prints and in quality and safety certificate for finished product.
- 5.9. When carrying out state sanitary and epidemiological control over food products derived from / or with the use of GMM and GMA, during the processes of production, storage, transportation and sale it is required to check the presence of regulatory and technical documents for specific types of products (standards, technical specifications, composition, specifications for imported products), certificates of state registration and sanitary-epidemiological conclusions on conformity with sanitary rules, issued in the established manner.
- 5.9.1. The sanitary and epidemiological examination of food products derived from / or with the use of GMM and GMA, during the processes of production, storage, transportation and sale includes selective laboratory tests for identification of the presence in the product of GMM and / or selective markers of GMM, and if necessary additional product and material testing in accordance with Clause 5.6 'b'.
- 5.9.2. State sanitary and epidemiological control includes examination of documents for raw materials and components, food products, which are located at the site under control and intended for storage, transportation and sale, regarding the information about the presence of GMM in the technical documents, on the label, as well as in the quality and safety certificate for the batch of finished products.

- 5.9.3. State sanitary and epidemiological control over organisation and implementation of production control of GMM and GMA at plants manufacturing or using GMM or GMA in food production shall be carried out in accordance with the requirements of Sub-clauses 5.8.4 'd' and 5.8.6 'b'
- 5.10. Methodology of sanitary-epidemiological evaluation of food products derived from / or with the use of GMM and GMA when performing control of circulation thereof in the territory of the Russian Federation includes:
- 5.10.1. Collection of samples of food products for laboratory testing for the purpose of identification of presence of GMM and GMA, performed at the entry stage for import, development and production start-up, manufacturing, transportation and sale in accordance with the established procedures and standards for sampling, as specified in Table 4 or in the regulatory and technical documents for products depending on the species thereof.

Product Name	Mass of Samples for Microbiological and Molecular and Genetic Examinations
Dairy products:	
Yoghurts and liquid fermented milk products(kefir, kumis, etc.) <*> and heat treated products based on them	0.5 1
Sour cream of all kinds <*> and heat treated products based on it	0.5 kg or 2 packages with net mass of not less than 250 g
Cottage cheese, cottage cheese products <*> and heat treated products based on them	
Ice cream based on fermented milk <*>	0.5 kg or 2 packages of not less than 0.5 kg
Dry fermented milk products <*>	not less than 200 g
Acid cream cow butter <*>	300 g or 1 package of not less than 200 g
Rennet hard cheese, soft, brine, etc.	200 g 1 package of not less than 200 g
Cheese spread	not less than 200 g
Milk sugar, milk whey proteins	not less than 200 g
Meat products:	
sausages and sausage products	400 g
Fermented meat products	500 g
Fish products, shellfish and algae and products based on them:	
canned and semi-preserved fish, including caviar	3 packages of up to 1 kg, 1 package of more than 1 kg, caviar - 125 g
Products of processing of molluscs, crustaceans, invertebrates, marine algae	
Beverages:	
wines, wine materials, cognac	0.5 1
beer(bottled, draught)	1 bottle or 0.5 l

kvas	
- bottled	0.5 1
- draught	0.5 1
no-alcoholic beverages, juices	1 l (freshly squeezed - 200 ml)
Horticulture products:	
vegetables, fruits, mushrooms (pickled, marinated, fermented, soaked)	500 g
Bread, bakery and confectionery products:	
Bread, bakery and fancy bakery products	2 packages (not less than 500 g)
bakery products, bread-rings	Piece-products - 3 items (not less than 300 g)
flour confectionery products: biscuits, hardtackes, gingerbreads, waffles, crackers, flour east sweets, tortes, cakes, buns	500 g
Oily raw materials and fat products:	
mayonnaise	300 g or 1 package
margarine, confectionery, baking and cooking fats	200 g
BAA to food:	
on the basis of probiotic and lactic- acid microorganisms Dry	
Liquid	200 g 200 ml
On the basis of food substances derived by biotechnological means (oligosaccharides, vitamins, etc.)	200 g
Products for children and dietary nutrition:	
Breastmilk substitutes, enriched with probiotics and fermented milk: Liquid	200 ml
Dry	200 g
Complementary feeding products:	
Kashas enriched with probiotics	200 g
Complementary feeding products on fruit and vegetable basis with addition of yoghurt, fermented milk products, cottage cheese and sour cream, heat treated and canned	3 tins with net mass of not less than 200 g
Enzyme agents for food industry:	

Powder-like Liquid	50 ml 200 ml
Bacteria starters, bacteria concentrate, biomass, probiotic and yeast cultures Liquid, including frozen Dry	200 ml 50 g
Starter cultures for production of meat products Liquid, including frozen dry	200 ml 50 g
Baking, beer, wine yeast Dry, pressed	100 g
Flavourings:	
Yeast lysates	100 g
Fermented soy products (tofu, soy sauce, fermented drinks, ice cream, mayonnaise)	200 g, 100 ml, 0.5 kg, 0.5 kg, 300 ml
Starch products(corn steep liquors, starches, maltodextrins, syrups, treacle etc.)	100 g or not less than 1 package

<*> Including probiotic.

- 5.10.2. Selection, transportation and storage of food samples shall be carried out in accordance with the requirements of regulatory and technical documents for this type of product.
- 5.10.3. The following information contained in Clause 5.3 and Tables 2 and 3 shall be used for selection of food samples for study and examination of documents for the presence of GMM or GMA:
- about food products, admitted for circulation in the territory of the Russian Federation and included into the State Register and the Register of Sanitary-Epidemiological Opinions;
- about GMM allowed to be used in food industry in the world;
- about the cultures of microorganisms used in food industry and potentially suitable for production of food products of their genetically modified analogues.
- 5.10.4. When determining the required scope and content of sanitary-epidemiological examination of food products produced from / or with the use of GMM and GMA it is necessary to be guided by the requirements of sanitary rules and make decisions with account of the origin of the product whether it belongs to one of three groups depending on the state of its technological microflora or microorgaisms-producers (Table 1).
- 5.10.5. When choosing the tests and methods to be used for carrying out sanitary and epidemiological assessment of specific products, manufactured with the use of GMM or GMA, it is required to proceed from the tasks of the basic and additional (if required) laboratory control and include microbiological, molecular and genetic and hygienic examinations of such products.
- 5.10.6. The total number of microbiological and molecular and genetic testings is the main examination in the process of performing basic laboratory control.
- 5.10.7. When conducting the basic and additional laboratory examinations it is required to be guided by research schemes, specified in Tables 5 and 6.

Scheme of Studies of Food Products Based on GMM and GMA as Regard Control in Circulation

Group of	Controlled Indices and Tests <*>	I Group		II Group	III Group
Methods	<*>	Products and Raw Materials with Viable GM Microflora		Viable GM	Products Free from GM
		Starter and Strains- Producers	Products Ready for Use	Microflora	Microflora
Microbiologi	cal and immunological				1
	Isolation of GMM (GMA), definition of quantifation in 1 g of the product and confirmation of species belonging compared with the reference-strain	+	+	-	-
	Absence of microorganisms-producers cells	-	-	+	+
	Presence of pathogenicity factors of strains including toxigenicity <*>	+	+	-	-
Molecular ge					
Morecular go	Confirmation of species (strain) belonging using the method of PCR GMM (GMA), isolated from the products or –the presented strains-producers including as compared with reference strain <*>	+	+	+	+
	Presence of selective markers (antibiotic resistance and others) in GMM (GMA), isolated from the product or in the product itself	+	+	+	+ <*> in the presence of DNA and protein in the product
	Identification of products of expression of target genes GMM <*>	-	+	+	+ <*> -"-
	Identification of specific target genes GMM	-	+	+	+ <*> -"-

Plasmid profile of GMM (GMA), isolated from the product when compared with reference strain <*>	+	+	-	
Indicators of sanitary and chemical and sanitary- microbiological security according to SanPiN 2.3.2.1078-2001 and SanPiN 2.3.2.1293-03 <*>	+	+	+	+
Toxicity in tests in vitro and in vivo <*>	-/-	-/+	-/+	-/+
Ames test for genotoxicity <*>	-/-	+/+	+/+	-/-

Note <*> - studies shall be appointed additionally.

Generic (Specific) Belonging of GMM in Food	Potential Risk Factor	Control Test
Mold fungi	Production of mycotoxins; antibiotics	Determination of mycotoxigenicity of GMM; genes encoding production of mycotoxins; determination of mycotoxins in food products derived from/ or with the use of GMM or GMA; definition of antibiotics in the product
Yeast- saccharomyces	Extra production of ethanol; allergenicity	Concentration of ethanol in the product; structural and mass distribution (protein profile) in the product or other tests confirming allergenicity
Streptomyces	Production of antibiotics	Determination of antibiotics in the product
Spore bacilli	Extra proteolytic activity; hemolytic activity; formation of antibiotic substances	Tests for acute toxicity of the product; hemolysis of erythrocytes under the influence of GMM; determination of antibiotics in the product
Enterococci	Formation of N-nitrosamines, histamine; antibiotic resistance	Determination of histamine, N-nitrosamines in the product; identification of resistance genes to vancomycin and rifampicinum
Lactobacilli heterofermentative	Excess formation of D (-) - lactic acid	Determination of concentration of D (-) - lactic acid in the product

- 5.10.8. Microbiological assessment is required for all types of food products derived from/ or with the use of GMM or GMA:
- containing GMM in the living state fermented milk, probiotic products, unpasteurized fermented beverages and beer, ready meat products, prepared using starter cultures;
- containing GMM or GMA in inviable state (which were inactivated in the process of manufacturing (heat-treated fermented milk products, certain types of fermented beverages and pasteurized beer).
- 5.10.9. Microbiological assessment of GMM and GMA used for food production include:
- determination of quantity in 1 g of the product and its authenticity (confirmation of generic and species belonging by microbiological methods) of technological microflora;
- comparative analysis of phenotypic properties of GMM, of the strain-recipient or referent (control) strain;
- determination of pathogenic properties of GMM, the strain-recipient and the reference (control) strain (adhesiveness, invasiveness, virulence) in vitro and in vivo.

Food products, in which GMM (GMA) are completely inactivated, or from which they are released during the manufacturing process, are subject to microbiological assessment to confirm the absence of living cells of technological microflora or producer strain in the mass (volume) of the product established by scientific and technical documentation, but not less than in 1 g.

- 5.10.10. Microbiological assessment shall be carried out in accordance with the approved regulations and methodical documents.
- 5.10.11. Molecular genetic assessment of the food products derived from/ or with the use of GMM (GMA); GMM and GMA isolated from food products, shall be carried out in accordance with the approved methodical documents and shall include the following:
- 5.10.11.1. Identification of marker genes using PCR. As marker genes for each group of microorganisms (lactic acid, yeast, fungi, bacilli, etc.) shall be selected antibiotic resistance genes, vector sequences, selective markers, "ori" sequences, auxotrophic sequences most frequently used in the design of GMM.

- 5.10.11.2. Confirmation of generic and specific belonging by polymerase chain reaction (PCR) using 16S pRNA genes, and, if necessary strain belonging by DNA-DNA hybridisation.
- 5.10.11.3.Identification of specific target genes of GMM shall be carried out: by PCR with appropriate primers and subsequent sequencing, restriction or hybridisation analysis of amplicon if the nucleotide sequence of the target gene and its regulatory element is known; by laboratory studies in the accredited research centre in accordance with the approved methodological documents, if information on the nucleotide composition of the target gene is not available.
- 5.10.11.4. Identification of the products of expression of the target gene shall be carried out by:
- determination of iRNA, transcribed from the target gene by reverse transcription polymerase chain reaction (RT-PCR);
- determination of protein expressed by target gene of GMM by electrophoretic separation in polyacrylamide gel (PAG SDS);
- determination of the specificity of the protein expressed by GMM target gene by immunoblot method.
- 5.10.11.5. Determination of the presence-absence of plasmids shall be carried out (with additional control).
- 5.10.12. Hygienic assessment of food products derived from/ or with the use of GMM or GMA shall be carried out with additional control including random checks of samples for compliance with the requirements of this Sanitary Rules for sanitary chemical and sanitary microbiological quality and safety or other examinations in accordance with Table 5 and 6.
- 5.10.13. Algorithms for carrying out of laboratory studies of food products samples include three options based on information on the belonging of the used microorganisms to GMA or GMM:
- 1) study of food products samples containing living microorganisms having genetically-modified analogues (GMA);
- 2) study of food products samples containing living genetically modified microorganisms (GMM);
- 3) study of food products samples containing non-viable genetically modified microorganisms and microorganisms having genetically modified analogues, as well as released from technological microflora.
- 5.10.14. Algorithm for laboratory studies of food products samples containing living GMA provides as follows:
- 5.10.14.1. The subjects of studies shall be samples of food products and raw materials of group I and II (Table 1) obtained with the use of or containing living GMA. Studies procedure is given in Table 7.

Test Samples	Study Contents	Study Results	Decision
Products of group I and II	Quantity determination of viable GMA of technological microflora in 1 g of the product	Quantity of microorganisms in the product corresponds to a normilized or the level claimed by the manufacturer	Positive decision on the study results
	Confirmation of generic and/or specific belonging of microorganism	Generic or specific belonging of the microorganism has been confirmed according to the documentation submitted by the applicant	
	3. Identification of DNA of marker vector genes (e.g. antibiotic resistant genes) in the food products sample	3. Absence of DNA of marker genes, plasmid DNA	
	4. Analysis of additional quality and food product safety indicators (Clause 5.6.1)	Characteristics adverse for customers have not been detected	
Products of group I and II	Quantity determination of viable GMA of technological microflora in 1 g of the product	Quantity of microorganisms in the product does not correspond to a normilized or the level claimed by the manufacturer	Negative decision on the study results
	Confirmation of generic and/or specific belonging of microorganism	Generic or specific belonging of the microorganism has not been confirmed	
	Identification of DNA of marker vector genes (e.g. antibiotic resistant genes) in the food products sample	DNA of marker genes has been detected	
	Analysis of additional quality and food product safety indicators	4. Pathogenicity factors, plasmid DNA or non-compliance with the safety regulations of these Sanitary Rules have been detected	

- 5.10.15. Algorithm for laboratory study of food products samples containing living GMM (food products and raw materials of group I and II obtained with the use of or containing living GMM registerd in the Russian Federation) includes:
- 5.10.15.1. Quantity determination of viable GMM of technological microflora in 1 g of the product; if the detected quantities are not less than the normalized level or the level claimed by the manufacturer in the normative and technical documentation, go to Clause 5.10.15.2.
- 5.10.15.2. Detection and identification of living GMM in the studied sample by microbiological methods. If the detected GMM do not comply with the manufacturer's declaration, go to Clause 5.10.15.13, if the detected GMM correspond to the ones stated in the technical documentation on the product and the data sheet attached to the certificate of depositing, go to Clause 5.10.15.3, the reference strain from the depositary (culture collections) shall be studied in parallel with the test strain of GMM from the product sample.

- 5.10.15.4. It is required to make sure that the microorganism donor of the target gene and the
- microorganism recipient of that gene have been well studied, allowed and have long been used in food industry, if this is the case go to Clause 5.10.15.5, if not go to Clause 5.10.15.13.
- 5.10.15.5. Confirmation of generic and specific belonging of the microorganism by PCR the analysis of the genome of GMM, if the result is positive, go to Clause 5.10.15.6, if not go to Clause 5.10.15.13.
- 5.10.15.6. Detection of marker genes (vector sequences, selective markers, "ori" sequences, auxotrophic sequences. In case only the stated marker sequences are detected, go to Clause 5.10.15.7, in case non-declared marker sequences are detected, go to Clause 5.10.15.13.
- 5.10.15.7. Detection of antibiotic resistance genes encoding resistance to antibiotics that have an clinical significance in medicine and veterinary, if the stated genes are dtected, go to Clause 5.10.15.13, if not, go to Clause 5.10.15.8.
- 5.10.15.8. Detection of the target gene by PCR followed by a confirmation of the nucleotide composition of the amplicon by the restriction or hybridisation analysis, if the target gene is detected, go to Clause 5.10.15.12, if not, go to Clause 5.10.15.13.
- 5.10.15.9. Determination of the nucleotide sequence of the target gene by sequencing and comparison with the declared nucleotide sequence, if the result is positive, go to Clause 5.10.15.12, if not, go to Clause 5.10.15.13.
- 5.10.15.10. Confirmation of the identity of the products of expression of target gene on the declared level and RNA (by RT-PCR) or by methods of electrophoresis in PAG and immunoblotting, if the result is positive, go to Clause 5.10.15.12, if not, go to Clause 5.10.15.13.
- 5.10.15.11. Analysis of additional quality and food product safety indicators for compliance with these Sanitary Rules. If the product meets the requirements, go to Clause 5.10.15.12, if not, go to Clause 5.10.15.13.
- 5.10.15.12. When the positive conclusion is issued, the product sample shall be assessed as complying with the requirements of these Sanitary Rules, in the part of requirements for marking and information.
- 5.10.15.13. When the negative conclusion is made, the product sample does not comply with these Sanitary Rules, further studies are guitted.
- 5.10.16. Algorithm for laboratory study of food products samples of group II and III containing non-viable GMM or GMA or released from technological microflora includes:
- 5.10.16.1. Detection of the growth of viable microorganisms of technological microflora and producer strains in the studied sample and their identification by microbiological methods. If living microorganisms-producers <*> correspond to the specified in the technical documentation on the product, or representatives of microorganisms closely related to them, which may not be related to external residual microflora, have been detected, go to Clause 5.10.16.10, if they have not been detected, go to Clause 5.10.16.2.

- <*> Except for the cases when additional identification studies are carried out in order to confirm generic and specific belonging of the referent strain from the depositary (culture collections).
- 5.10.16.2. It should be verified by analysis of the supporting documentation if a producer strain has been obtained with the use of genetic engineering technologies or not, if the strain belongs to GMM, go to Clause 5.10.16.3, if not, further actions are analogous to the ones given in Table 7.
- 5.10.16.3. It should be verified whether the microorganism-donor of the target gene (for example, the gene encoding the synthesis of the enzyme) and the microorganism-recipient (producer strain) have been thoroughly studied and have safely been used for a long period in food industry. If GMM has such characteristics, go to Clause 5.10.16.4, if the strains are new, go to Clause 5.10.16.10.
- 5.10.16.4. To test the presence of DNA of producer strain in the analysed food product sample and the presence of generic and/or specific sequences, marker genes and the target gene. If the DNA of microbial origin in the analysed food product sample may not be detected within the sensitivity of the method, go to

Clause 5.10.16.9, if the DNA target sequences have been detected in the isolated DNA, go to Clause 5.10.16.5, if not, go to Clause 5.10.16.10.

- 5.10.16.5. To render concrete the marker genes encoding resistance to antibiotics that have an essential clinical significance in medicine and veterinary, if the stated genes are detected, go to Clause 5.10.16.10, if not, go to Clause 5.10.16.6.
- 5.10.16.6. Determination of the nucleotide sequence of the target gene and comparison with the declared nucleotide sequence, if the DNA target sequences have been detected, go to Clause 5.10.16.9, if not, go to Clause 5.10.16.7.
- 5.10.16.7. Detection of the protein identity expressed by the target gene of GMM to the declared protein (enzyme) by electrophoresis in PAG and immunoblot, if such correspondence has been detected, go to Clause 5.10.16.9, if not, go to Clause 5.10.16.10.
- 5.10.16.8. Analysis of additional quality and food product safety indicators shall be carried out with additional control in accordance with these Sanitary Rules.
- 5.10.16.9. The decision is made, according to which the product sample shall be assessed as complying with the requirements of these Sanitary Rules, in the part regarding requirements for marking and information.
- 5.10.16.10. The decision is made, according to which the product sample does not comply with these Sanitary rules, further studies are quitted.
- 5.11. After the accomplishment of the samples testing, examination of the enclosed documentation and production, based on the obtained results analysis, the decision on the GMM (GMA) products compliance with the requirements of the Sanitary Rules for labelling shall be made.
- 5.11.1. Depending on the results, the decision is made in the following way:
- if it is found that the food products samples contain GMM (and/or target genes of GMM, products of expression of target genes) and/or GMA, corresponding to the manufacturer's declaration, if their belonging to microorganisms -producers is confirmed as declared in the technical documentation and allowed for circulation in the Russian Federation, and if the food products do not contain DNA and protein, but it is confirmed that they contain microorganisms-producers declared in the technical documentation allowed for circulation in the Russian Federation based on the results of the documentation examination or the additional testing, such products shall be considered as meeting the requirements of the sanitary rules;
- if the samples contain food products obtained from/or with the use of GMM:
- a) GMM (and/or target genes of GMM, products of expression of target genes, selective markers of GMM), not corresponding to the declaration of the manufacturer, not specified in the technical documentation, not registered and not allowed for circulation in the Russian Federation;
- b) GMM or selective markers of GMM, plasmid DNA in the samples of the traditional food products, obtained from/or with the use of GMA;
- c) genes of transmissible antibiotic resistance and/or factors (markers) of pathogenicity in the food products samples from GMM and GMA;
- d) toxicity, genotoxicity, residual quantities of antibiotics, mycotoxins and other alien substances in the food products samples, obtained from/or with the use of GMM and GMA, the decision is made on the non-compliance of the products with the sanitary rules.

ConsultantPlus: note:

The numbering of Clauses is given in accordance with the official text of the document.

- 5.13. In the Section "Hygienic Characteristics of Products" of the sanitary and epidemiological opinions issued on the food products, obtained from/or with the use of GMM in the column "Substances, Indices (Factors)" the following line shall be additionally included: "GMM". Correspondingly, in the column "Hygienic Standard" of this line it is required to specify the relation of the products to GMM, and particularly:
- "Contains GMM (the name of the strain and the particular genetic modification)";
- " Obtained with the use of GMM (the name of the strain and the particular genetic modification)";
- 5.12.1. Depending on the condition of technological microflora in the product the forms of the records in the sanitary and epidemiological opinions on the food products obtained from/or with the use of GMM shall provide for:

- when the food product contains viable and non-viable GMM, the generic and specific name(s) of the culture(s) used for production for food products shall be indicated in the Latin language, as well as the number of the strain;
- for products obtained with the use of microorganisms-producers, but released from them during the technological process, the information on strain-source of the products origin.
- 5.12.2. The examples of records in the sanitary and epidemiological opinions on the food products obtained from/or with the use of GMM are given in Table 8.

Options for Execution of Sanitary and Epidemiological Opinion in the Part Of Requirements for Technological Microflora

Substances, Indicators (Factors)	Hygienic Standard (SanPiN, Maximum Allowed Level, Maximum Permissible Concentrations, etc.)
Ontion 1 Processing aid - nowder of nure culture of	alcohol yeast Saccharomyces cerevisiae Y-1986 for alcohol
production from starch-contained raw material	diconor yeast Gaccharomyces cerevisiae 1-1500 for diconor
GMM: contains genetically modified strain	Saccharomyces cerevisiae strain Y-1986 with the gene of alpha amylase from Bacillus licheniformis in the quantity of 1 x 10 10 CFU/g of the product, not less
Option 2. Agarinic culture - producer of the lipase enzyme	e Aspergillus oryzae based on GMM
GMM: contains genetically modified strain	Consists of Aspergillus oryzae strain ATCC-92341 with Lipase triacylglycerol gene from Humicola lanuginose
Option 3. Food additive - enzyme agent "XXXX" of alpha	amylase of microbial origin for starch industry
GMM: obtained with the use of genetically modified strain	Bacillus amyloliquefaciens strain EBA-1 with the gene of alpha amylase from Bacillus amyloliquefaciens strain BZ53 in 1 g of the product - absent

5.13. Label inscriptions on consumer packages of the food products obtained from/or with the use of GMM shall include information on GMM presence provided for by Clause 2.18 of these Sanitary Rules.

VI. SANITARY AND EPIDEMIOLOGICAL REQUIREMENTS FOR ORGANIC PRODUCTS

(introduced by Amendments and Additions No. 8, approved by Resolution No.26 of Chief State Sanitary Inspector of the RF dated 21.04.2008)

- 6.1. For production of agricultural crops and plants, animal products, products of poultry farming and beekeeping, obtained with the use of technologies, ensuring food products manufacture from raw materials, obtained without use of pesticides and other plant-protecting agents, chemical fertilizers, animal growth stimulants and feeding stimulants, antibiotics, hormonal agents, veterinary drugs, GMO, not exposed to ionizing radiation, and their derived products containing not less than 95% of ingredients obtained with consideration of these Sanitary Rules requirements, and the content of the remaining ingredients in the final product does not exceed 5% of the total mass of all ingredients (except for edible salt and water) (hereinafter referred to as the organic products), the following is used:
- farmery fields, agricultural lands, farms, the transition period for which is not less than 2 years from the time of seedage or in case of permanent crops (except for grass) is minimum three years prior to the first gathering of the organic products;
- only natural flavouring agents;
- agents form microorganisms and enzymes allowed in the established procedure, used when processing food products or as processing aids, except for genetically modified microorganisms or enzymes, obtained by genetic engineering;
- 6.2. Acquisition and storage of materials with unclear origin and not allowed for production of organic products is not permissible.
- 6.3. Equipment used for organic products manufacturing and pipelines for irrigation shall be maintained and operated in accordance with the regulatory and technical documentation, be allowed for use in the established manner.
- 6.4. Harvest equipment, vehicles and containers shall be marked according to their application designation (only for organic products) and after their application shall be sanitary treated and stored in conditions which exclude their contamination after treatment and prior to their application.

All vehicles used for transportation of organic products shall be in appropriate technical condition, have a certificate of hydiene.

6.5. Products of organic production are allowed to be transported and sold only in packagings, with the marking "organic product" and they shall be supported by documents confirming their origin as organic products, their quality and safety.

Each batch of organic products shall be supported by documentation, allowing to trace the origin of the product and its quality (a quality and safety certificate).

- 6.6. Imported organic products shall undergo sanitary epidemiological examination with confirmation of organic product identification from the authorized body of the importing country.
- 6.7. Requirements for production of organic products of plant origin:
- 6.7.1. When growing organic products of plant origin it is necessary to provide the exclusion of influence of other productions not related to organic products production in order to prevent their contamination by radioactive, chemical, biological substances and their compounds, microorganisms and other biological organisms posing threat to health of the present and future generations (hereinafter referred to as pollutants).
- 6.7.2. Land plots used for organic products production shall meet the hygienic requirements for soil.

Land plots in which the hygienic standards of pollutants content for soil are exceeded shall be discharged from crop rotation system when organic products are being produced.

- 6.7.3. Water used for washing or processing agricultural crops shall satisfy sanitary and epidemiological safety requirements for drinking water.
- 6.7.4. Materials on the basis of polyethylene, polypropylene and other polycarbonates allowed for use in accordance with the established procedure may be applied for covering of protected structures, synthetic mulch, screens protecting from insects and for wrapping of silage. Products on the basis of polychloride shall not be used.
- 6.7.5. The culture may be dried by air or by other physical methods including the use of heaters but end products of fuel combustion shall not contaminate the culture. The use of these methods shall provide complete fuel combustion. The premises for drying shall be equipped with forced combined extract and input ventilation.
- 6.7.6. Food additives and processing aids may be used meeting the requirements specified in Table 9 and 10.
- 6.7.7. Only means to control pests quantity and plant diseases and agrochemicals which have undergone state registration in accordance with the established procedure may be used, they are specified in Table 11 and 12.
- 6.7.8. Fertilizers obtained during processing of side-products of slaughtery and fresh blood, as well as urea and Chilian nitrate are not allowed for use.
- 6.7.9. Synthetic herbicides, fungicides, pest control chemicals and other pesticides are not allowed for use.
- 6.7.10. Products containing copper in amounts exceeding 3 kg/ha per year are not allowed for use.
- 6.7.11. Synthetic growth regulators and synthetic dyes are not allowed for use. The exception is ethylene which may be used as a growth regulator for plants.
- 6.7.12. Organic products storages shall be kept clean and sanitary treated by means allowed for these purposes and specified in Table 12 of these sanitary rules.
- 6.8. Requirements for production of organic products of beekeeping and animal breeding.
- 6.8.1. Hive brood chambers shall be located in such a way that all farm units within a radius of 6 km from the beeyard meet the requirements of these sanitary rules.

It is allowed to locate other farm units within this radius which do not pose threat of contamination by radioactive, chemical, biological substances and their compounds, microorganisms and other biological organisms posing threat to health of the present and future generations, and which do not include pesticides. Beekeeping products shall be sold as organic products provided they have been obtained in compliance with these sanitary rules upon expiration of one year since the beginning of the beeyard activity.

- 6.8.2. When working with bees (during gathering of beekeeping products) one shall only use repellents allowed in accordance with the established procedure. It is not allowed to use synthetic chemical repellents.
- 6.8.3. For combating pests and bee diseases it is allowed to use the following substances and means: lactic acid, ethane diacid, formylic acid, acetic acid, sulfur, natural essential oils (menthol, eucalyptol, camphor), vapour and open flame, as well as allowed bacterial agents (Bacillus thuringiensis).
- 6.8.4. It is allowed to use food additives and processing aids for treatment of animal and beekeeping organic products in compliance with the requirements specified in Tables 13 and 14.
- 6.8.5. Animal products shall be considered as organic products if their production included the use of feeding grounds which have not been treated by any means not included in Tables 11 and 12 of these sanitary rules for 3 last years. The amount of fertilizers used in farm units shall not exceed 170 kg of nitrogen per year for 1 ha of farmlands.
- 6.8.6. Bovine cattle from the animal stock in which bovine spongiform encephalopathy (BSE) has been registered for the last six years cannot be used for organic products production.
- 6.8.7. It is not allowed to store on the territory of animal husbandry construction and other materials treated by dyes, preserving agents and toxic substances, which may negatively affect the organic product safety.
- 6.8.8. It is not allowed to keep agents to combat rodents and parasites within animals reach.
- 6.8.9. For cleaning and disinfection of cattle-breeding premises and buildings for keeping animals and birds, as well as for equipment and devices the following substances and agents are allowed for use: Potassium soap, sodium hydroxide soap, lime cream, lime, burnt lime, sodium hypochloride, sodium hydrate, potassium hydroxide, hydrogen peroxide, natural plant essenses, citric acid, peroxyacetic acid, formylic acid, lactic acid, ethane diacid, acetic acid, ethanol, hydrogen nitrate, phosphoric acid, calcium carbonate.
- 6.8.10. It is necessary to use animal and birds feeding stuff satisfying their physiological needs at different development stages and used for achievement of product high quality. It is not allowed to use feeding stuff with additives designated for intensive production (hormones, etc.), as well as feeding stuff with the use of genetically modified organisms.
- 6.8.11. It is allowed to use feeding stuff prepared without use of organic solvents. Macro-and micronutrients, vitamins, allowed for organic products production, are specified in Table 15 of these sanitary rules.
- 6.8.12. It is allowed to use silage, produced with the use of the following additives and treatment agents only: sorbic acid (E200), formylic acid (E236), acetic acid (E260), lactic acid (E270), propionic acid (E280), citric acid (E330), sea salt, rock salt, whey, sugar, sugar beet bagasse, grain flour, molasses, in compliance with the technical rules for their application, established by the sanitary epidemiological examination.
- 6.8.13. Enzymes, microorganisms, binders (calcium stearate of natural origin (E 470), colloidal silicon dioxide (E 551), bentonite (E 558), aluminum silicate (E 559), potassium silicate (E 560), vermiculite, sepiolite, perlite), beer yeast, in compliance with the norms, established by the Sanitary epidemiological examination thereof are allowed to be used for animals feeding.
- 6.8.14. It is not allowed to use antibiotics, coccidiostats, and other pharmaceutical agents, growth and galactosis stimulants in the animals food ration.
- 6.8.15. It is not allowed to use chemical and synthetic allopathic agents or antibiotics as preventive measures.

FOOD ADDITIVES USED IN PRODUCTION OF ORGANIC PRODUCTS OF PLANT ORIGIN

Table 9

N	Name of Food Additives	Application Conditions
n/n		
1	2	3
1.	Calcium carbonate (E 170)	In accordance with SanPiN 2.3.2.1293-03 <*>
2.	Sulphur dioxide (E 220)	For winemaking products, in accordance with SanPiN 2.3.2.1293-03
3.	Lactic acid (E 270)	For fermented vegetable products, in accordance with SanPiN 2.3.2.1293-03
4.	Carbon dioxide (E 290)	In accordance with SanPiN 2.3.2.1293-03
5.	Malic acid (E 296)	In accordance with SanPiN 2.3.2.1293-03
6.	Ascorbic acid (E 300)	In accordance with SanPiN 2.3.2.1293-03

7.	Tocopherols, mixed tocopherols concentrate, natural (E306)	In accordance with SanPiN 2.3.2.1293-03	
8.	Lecithin (E 322), obtained without use of bleaching agents and organic solvents	In accordance with SanPiN 2.3.2.1293-03	
9.	Citric acid (E330)	For vegetable and fruit products, in accordance with SanPiN 2.3.2.1293-03	
10.	Sodium tartrates (E 335)	For cakes and confectionery products, in accordance with SanPiN 2.3.2.1293-03	
11.	Potassium tartrates (E 336)	For grain, confectionery products, cakes, in accordance with SanPiN 2.3.2.1293-03	
12.	Monocalcium orthophosphate (E 341 i)	Only for the dough volume increase, in accordance with SanPiN 2.3.2.1293-03	
13.	Alginic acid (E 400)	In accordance with SanPiN 2.3.2.1293-03	
14.	Sodium alginate (E 401)	In accordance with SanPiN 2.3.2.1293-03	
15.	Potassium alginate (E 402)	In accordance with SanPiN 2.3.2.1293-03	
16.	Agar (E 406)	In accordance with SanPiN 2.3.2.1293-03	
17.	Carrageenan (E 407)	In accordance with SanPiN 2.3.2.1293-03	
18.	Carob gum (E 410)	In accordance with SanPiN 2.3.2.1293-03	
19.	Guar gum (E 412)	In accordance with SanPiN 2.3.2.1293-03	
20.	Tragacanth gum (E 413)	In accordance with SanPiN 2.3.2.1293-03	
21.	Gum arabic (E 414)	For dairy products, fats and confectionery products, in accordance with SanPiN 2.3.2.1293	
22.	Xanthane gum (E 415)	For vegetable and fruit products, products based on fat, for cakes and biscuits, salads, in accordance with SanPiN 2.3.2.1293-03	
23.	Karaya gum (E 416)	In accordance with SanPiN 2.3.2.1293-03	
24.	Pectins (E 440)	In accordance with SanPiN 2.3.2.1293-03	
25.	Sodium carbonates (unmodified) (E 500)	For cakes and biscuits, confectionery products, in accordance with SanPiN 2.3.2.1293-03	
26.	Potassium carbonates (E 501)	For grain products, cakes and biscuits, confectionery products, in accordance with SanPiN 2.3.2.1293-03	
27.	Ammonium carbonates (E 503)	In accordance with SanPiN 2.3.2.1293-03	
28.	Magnesium carbonates (E 504)	In accordance with SanPiN 2.3.2.1293-03	
29.	Potassium chloride (E 508)	For frozen fruit and vegetables, canned fruits and vegetables, vegetable sauces, ketchup and mustard, in accordance with SanPiN 2.3.2.1293-03	
30.	Calcium chloride (E 509)	For dairy products, products based on fats, fruits and vegetables, soya products, in accordance with SanPiN 2.3.2.1293-03	
31.	Magnesium chloride (E 511)	For soya products, in accordance with SanPiN 2.3.2.1293-03.	
32.	Calcium sulphates (E 516)	For cakes and biscuits, soya products, yeast, in accordance with SanPiN 2.3.2.1293-03.	
33.	Sodium hydroxide (E 524)	For grain products, in accordance with SanPiN 2.3.2.1293-03.	
34.	Argon (E 938)	In accordance with SanPiN 2.3.2.1293-03	

35.	Nitrogen (E 941)	In accordance with SanPiN 2.3.2.1293-03
36.	Oxygen (E 948)	In accordance with SanPiN 2.3.2.1293-03

Table 10 PROCESSING AIDS, WHICH CAN BE USED FOR PRODUCTION OF ORGANIC PRODUCTS OF PLANT ORIGIN

		ORIGIN
N	Name	Special Application Terms
n/n		
1	2	3
1.	Calcium chloride	Firming agent
2.	Calcium carbonate	
3.	Calcium hydroxide	
4.	Calcium sulphate	Firming agent
5.	Magnesium chloride	Firming agent
6.	Potassium carbonate	For the purpose of grapes drying
7.	Carbon dioxide	
8.	Nitrogen	
9.	Ethanol	Solvent
10.	Tannic acid	For filtering purposes
11.	Egg white albumines	
12.	Casein	
13.	Gelatin	
14.	Fish adhesive	
15.	Vegetable oils	
16.	Silicon dioxide	Application as a gel or colloid solution
17.	Activated carbon	
18.	Agilite	
19.	Bentonite	
20.	Kaolin	
21.	Diatomaceous earth	
22.	Perlite	
23.	Hazelnut shells	
24.	Beeswax	Anti-adhesion additives
25.	Carnauba wax	Anti-adhesion additives
26.	Sulphuric acid	pH correction for water deletion in sugar syrup
27.	Sodium hydroxide	pH correction for sugar production
28.	Tartaric acid and its salts	
29.	Calcium carbonate	Sugar production
30.	Agents based on tree bark	
31.	Potassium hydroxide	pH correction for sugar production
32.	Citric acid	pH correction

<*> SanPiN 2.3.2.1293-03 "Hygienic Requirements for the Application of Food Additives", registered by Ministry of Justice on 02.06.2003 Russia, registration number 4613.

AGROCHEMICALS ALLOWED TO BE USED FOR PRODUCTION OF

ORGANIC PRODUCTS <*>

No.	Means	Requirements for Composition and Conditions of Use
item		
1	2	3
1.	Farmyard manure and bird droppings, obtained within organic products production system conditions	After composting, worm breeding or thermal processing subject to presence of positive veterinary conclusion and application of regulations for use established during the sanitary epidemiological examination
2.	Manure from farms producing organic products	After composting, if introduced into the soil 120 days prior to harvest, intended for food purposes and regulations for use, determined during the sanitary epidemiological examination
3.	Remaining quantities of agricultural crops and green manure fertilizers obtained from the farm unit producing organic products	In accordance with the regulations for use, determined during the sanitary epidemiological examination
4.	Straw and other mulch obtained from the farm unit producing organic products	In accordance with the regulations for use, determined during the sanitary epidemiological examination
5.		In accordance with the regulations for use, determined during the sanitary epidemiological examination. It is necessary to specify animal species
6.	Compost and composted farmyard manure, obtained from the farm unit producing organic products	In accordance with the regulations for use, determined during the sanitary epidemiological examination
7.	Dry farmyard manure and dry bird manure, obtained from the farm unit producing organic products	In accordance with the regulations for use, determined during the sanitary epidemiological examination
8.	Guano	In accordance with the regulations for use, determined during the sanitary epidemiological examination
9.	Straw	After composting it shall be used in accordance with the regulations for use, determined during the sanitary epidemiological examination
10.	Compost and mushroom waste and vermiculite substrate	In accordance with the regulations for use, determined during the sanitary epidemiological examination
11.	Sorted, composted or fermented household food waste	In accordance with the regulations for use, determined during the sanitary epidemiological examination
12.	Compost from by-products of plant origin	In accordance with the regulations for use, determined during the sanitary epidemiological examination
13.	Processed animal products from slaughtering and fish plants	In accordance with the regulations for use, determined during the sanitary epidemiological examination

14.	By-products of food and textile industry not processed by synthetic additives	In accordance with the regulations for use, determined during the sanitary epidemiological examination	
15.	Algae and products thereof	Shall only be obtained by means of: 1) physical processes, including dehydration, freezing and pulverizing, 2) water extraction or aqueous acid solution and/or alkaline solution, 3) fermentation and be used in accordance with the regulations for use, determined during the sanitary epidemiological examination	
16.	Sawdust, bark and woodwaste	After cutting the timber shall not be treated with chemicals, it shall be used in accordance with the regulations for use, determined during the sanitary epidemiological examination	
17.	Wood and charcoal	After cutting the timber shall not be treated with chemicals, it shall be used in accordance with the regulations for use, determined during the sanitary epidemiological examination	
18.		Content of cadmium shall not exceed 90 mg / kg P2O5, it shall be used in accordance with the regulations for use, determined during the sanitary epidemiological examination	
19.	Basic slag	In accordance with the regulations for use, determined during the sanitary epidemiological examination	
20.	Potassium salts (Cainites, sylvinite and etc.)	Content of chlorine shall not be more than 60% it shall be used in accordance with the regulations for use, determined during the sanitary epidemiological examination	
21.	Potassium sulphate (patenkali, etc.)	Obtained as a result of physical processes with subsequent enrichment be chemical means in order to improve solubility. It shall be used in accordance with the regulations for use, determined during the sanitary epidemiological examination	
22.	Calcium carbonate of natural origin (chalk, marl, limestone, phosphate-containing chalk)	In accordance with the regulations for use, determined during the sanitary epidemiological examination	
23.	Magnesium rock of natural origin	In accordance with the regulations for use, determined during the sanitary epidemiological examination	
24.	Lime-magnesium rock of natural origin	In accordance with the regulations for use, determined during the sanitary epidemiological examination	
25.	Epsom salt (magnesium sulphate)	In accordance with the regulations for use, determined during the sanitary epidemiological examination	
26.	Natural gypsum (calcium sulfate) from natural sources only	In accordance with the regulations for use, determined during the sanitary epidemiological examination	
27.	Grains and grains extract except ammonium grains	In accordance with the regulations for use, determined during the sanitary epidemiological examination	
28.	Sodium chloride	Only mine salt shall be used in accordance with the regulations for use, determined during the sanitary epidemiological examination	
29.	Aluminum - calcium phosphate	Shall not be used as defoliant or herbicide. The use of chlorides and nitrates of the said microelements shall not be allowed. Content of cadmium shall not exceed 90 mg / kg P2O5. It shall be used in accordance with the regulations for use, determined during the sanitary epidemiological examination	

30.	Microelements (e.g, boron,	Shall not be used as defoliant or herbicide.	
•••	copper, iron, manganese,	The use of chlorides and nitrates of the said microelements shall not be	
	molybdenum, zinc)	allowed.	
		It shall be used in accordance with the regulations for use, determined	
		during the sanitary epidemiological examination	
31.	Sulfur	In accordance with the regulations for use, determined during the sanitary epidemiological examination	
32.	Stone powder (crushed basalt)	In accordance with the regulations for use, determined during the sanitary epidemiological examination	
33.	Alumina (e.g bentonite, perlite, zeolite)	In accordance with the regulations for use, determined during the sanitary epidemiological examination	
34.	Biological organisms found in the wild (e.g, worms)	In accordance with the regulations for use, determined during the sanitary epidemiological examination	
35.	Vermiculite	In accordance with the regulations for use, determined during the sanitary epidemiological examination	
36.	Peat	Except for peat with the addition of synthetic additives. It shall be used for germination of seeds in peat pots. It is not allowed to be used as a soil conditioner. Other methods of using peat - in accordance with the regulations for use, determined during the sanitary epidemiological examination	
37.	Humus from worms and insects	In accordance with the regulations for use, determined during the sanitary epidemiological examination	
38.	Humic acid of natural origin (water and alkali extracts only)	In accordance with the regulations for use, determined during the sanitary epidemiological examination	
39.	Bleaching powder	In accordance with the regulations for use, determined during the sanitary epidemiological examination	
40.	By-products of sugar production (e.g, grains)	on In accordance with the regulations for use, determined during the sanitary epidemiological examination	
41.	By-products of processing of Guinea palms, coconut and cocoa (including palm combs and residues, filtered press cake, cocoa husks)	In accordance with the regulations for use, determined during the sanitary palepidemiological examination	
42.	By-products obtained as a result of organic products processing	In accordance with the regulations for use, determined during the sanitary epidemiological examination	
43.	Calcium chloride solution	For processing of leaves in the case of proven calcium deficiency	

<*> Agrochemicals shall undergo state registration in the Russian Federation in the established manner.

MEASURES FOR PESTS AND PLANT DISEASES CONTROL ALLOWED TO BE USED FOR PRODUCTION OF ORGANIC PRODUCTS <*>

No.	Name	Application Terms	
item			
1	2	3	
1.	Of plant and animal origin		
1.1.	Preparations based on pyrethrin, derived from Chrysanthemum cinerariaefolium, which can contain synergists	Shall be used only in case of direct threat to harvest, except piperonyl butoxide used as a synergist	
1.2.	Preparations based on rotenone, obtained from species of Derris elliptica, Lonchocarpus spp, Thephrosia spp	Shall be used only in case of direct threat to harvest	
1.3.	Preparations based on Quassia amara	Shall be used only in case of direct threat to harvest	
1.4.	Preparations based on Ryania speciosa	Shall be used only in case of direct threat to harvest	
1.5.	Products based on shoals (azadirachtin) from Aradiachta indica	Shall be used only in case of direct threat to harvest	
1.6.	Propolis	Shall be used only in case of direct threat to harvest	
1.7.	Vegetable and animal oils (e.g, mint, pine, thyme oil)	Shall be used only in case of direct threat to harvest	
1.8.	Seaweed, flour and seaweed extracts, sea salt and salty water, which were not subjected to chemical processing	Shall be used only in case of direct threat to harvest	
1.9.	Gelatin	Shall be used only in case of direct threat to harvest	
1.10.	Casein	Shall be used only in case of direct threat to harvest	
1.11.	Lecithin	Shall be used only in case of direct threat to harvest	
1.12.	Natural acids (e.g acetic)	Shall be used only in case of direct threat to harvest	
1.13.	Fermented products from aspergilli	Shall be used only in case of direct threat to harvest	
1.14.	Mushroom extract (Shiitake fungus)	Shall be used only in case of direct threat to harvest	
1.15.	Chlorella extract	Shall be used only in case of direct threat to harvest	
1.16.	Chitin nematicides of natural origin	Shall be used only in case of direct threat to harvest	
1.17.	Natural herbal preparations (except drugs based on tobacco)	Shall be used only in case of direct threat to harvest	
1.18.	Beeswax	Shall be used only in case of direct threat to harvest	
1.19.	Sabadilla	Shall be used only in case of direct threat to harvest	
2.	Of mineral origin	<u> </u>	
2.1.	Copper in the form of hydroxide, oxychloride (tribasic), sulfate, suboxide, Bordeaux and Burgundy fluid	The necessity to be used, purpose and dosage shall be confirmed in the established manner. Can be applied as a fungicide conditioned that the use of preparations will not cause accumulation of copper in soil above the established level.	

2.2.	Sulphur	Shall be used only in case of direct threat to	
	·	harvest	
2.3.	Mineral powders (stone powder, silicates, bentonite)	Shall be used only in case of direct threat to harvest	
2.4.	Diatomaceous earth	Shall be used only in case of direct threat to harvest	
2.5.	Sodium silicate	Shall be used only in case of direct threat to harvest	
2.6.	Sodium bicarbonate	Shall be used only in case of direct threat to harvest	
2.7.	Potassium permanganate	Shall be used only in case of direct threat to harvest of fruit trees, grapes	
2.8.	Iron phosphate	Shall be used as molluscicide	
2.9.	Burnt lime	Shall be used this way to minimize accumulation of copper in soil	
2.10.	Mineral oils (except oil)	Shall be used only in case of direct threat to harvest	
2.11.	Paraffin oil	Shall be used only in case of direct threat to harvest	
2.12.	Silica sand		
3.	Microorganisms used for biological pest control		
3.1.	Preparations of Bacillius thuringiensis, granulosis virus, etc.	Shall be used only in case of direct threat to harvest	
4.	Other		
4.1.	Homeopathic and Ayurvedic drugs	Shall be used only in case of direct threat to harvest	
4.2.	Carbon dioxide and nitrogen	Shall be used only in case of direct threat to harvest	
4.3.	Potassium soap (soft soap)		
4.4.	Ethanol	Shall be used only in case of direct threat to harvest	
4.5.	Herbal and biodynamic preparations		
4.6.	Sterilized insect males	Shall be used only in case of direct threat to harvest	
4.7.	Predatory insects	Shall be used only in case of direct threat to harvest	
4.8.	Beeswax	Shall be used only as substance in case of tree chopping	
5.	Physical barriers		
5.1.	Processing by electromagnetic field	Shall be used only in case of direct threat to harvest	
5.2.	Sound	Shall be used only in case of direct threat to harvest	
5.3.	Steam as a sterilizing method	Shall be used only in case of direct threat to harvest	
5.4.	Ammonium carbonate	Shall be used only as a repellent for large animals. No contact with soil or edible crops is not allowed	
5.5.	Hydrogen peroxide	Shall be used only in case of direct threat to harvest	
6.	Traps	•	
6.1.	Mechanical	Shall be used only in case of direct threat to harvest	

6.2.	Pheromones - only in traps and dispensers	Traps and / or dispensers shall prevent release of substances used into the environment and contact thereof with the grown cultures. After completion of work traps shall be collected and safely disposed of
6.3.	Sticky traps	Shall be used only in case of direct threat to harvest
6.4.	Mineral oils (except oil)	Shall be used only in case of direct threat to harvest
6.5.	Preparations based on metaldehyde, containing repellents for scaring away more highly organized animals, also used in the traps	Shall be used only in case of direct threat to harvest

<*> Means for pests and plant diseases control shall undergo state registration in the Russian Federation in the established manner.

No.	Name	Field of Application	
item			
1	2	3	
1.	Vegetable carbon (E 153)	For some types of cheeses in accordance with SanPin 2.3.2.1293-03 <*>	
2.	Calcium carbonate (E 170)	For dairy products, in accordance with SanPiN 2.3.2.1293-03. Shall not be used as colouring agent	
3.	Lactic acid (E 270)	For sausage casings, in accordance with SanPiN 2.3.2.1293-03	
4.	Carbon dioxide (E 290)	In accordance with SanPiN 2.3.2.1293-03	
5.	Lecithin (E 322), obtained without use of bleaching agents or organic solvents	For dairy products, baby food based on milk, products based on fat, mayonnaise, in accordance with SanPiN 2.3.2.1293-03	
6.	Sodium citrate (E 331)	For sausages, egg white pasteurization, dairy products, in accordance with SanPiN 2.3.2.1293-03	
7.	Agar (E 406)	In accordance with SanPiN 2.3.2.1293-03	
8.	Carrageenan (E 407)	For dairy products, in accordance with SanPiN 2.3.2.1293-03.	
9.	Carob gum (E 410)	For dairy and meat products, in accordance with SanPiN 2.3.2.1293-03.	
10.	Guar gum (E 412)	For dairy products, canned meat, egg products, in accordance with SanPiN 2.3.2.1293-03	
11.	Tragacanth gum (E 413)	In accordance with SanPiN 2.3.2.1293-03	
12.	Gum arabic (E 414)	For dairy products, products based on fat, confectionery, in accordance with SanPiN 2.3.2.1293-03	
13.	Pectins (unmodified) (E 440)	For dairy products, in accordance with SanPiN 2.3.2.1293-03.	
14.	Calcium chloride (E 509)	For dairy products, in accordance with SanPiN 2.3.2.1293-03.	
15.	Argon (E 938)	In accordance with SanPiN 2.3.2.1293-03	
16.	Nitrogen (E 941)	In accordance with SanPiN 2.3.2.1293-03	
17.	Oxygen (E 948)	In accordance with SanPiN 2.3.2.1293-03	

<*> SanPiN 2.3.2.1293-03 "Hygienic Requirements for Use of Food Additives", registered by Ministry of Justice of the RF on 02.06.2003, registration number 4613.

PROCESSING AIDS, WHICH CAN BE USED FOR TREATMENT OF ORGANIC ANIMAL AND BEE PRODUCTS

No.	Name	Special Application Terms
item		
1	2	3
1.	Calcium carbonate (E 170)	
2.	Calcium chloride (E 509)	Used as thickening agent in cheese making to give density
3.	Kaolin	To extract propolis
4.	Lactic acid (E 270)	For dairy products as thickening agent . To correct pH of salt bath in cheese making
5.	Calcium carbonate (E 500)	For dairy products as neutralizing agent

Table 15

FEEDSTUFF, PRODUCED WITHOUT CHEMICAL SOLVENTS, MACRO-AND MICROELEMENTS, VITAMINS, ALLOWED TO BE USED FOR PRODUCTION OF ORGANIC PRODUCTS

1.	Cereals, grain, products of processing thereof and by-products	Oats in the form of grains, flakes, feed flour, bran; barley in the form of grains, protein and feed flour; rice in the form of grains, chops, feed flour, germ press cake; millet sowing in the form of grains, rye in the form of grains, feed flour and bran; sorghum in the form of grains; wheat in the form of grains, feed flour, bran, gluten, germ; triticale in the form of grains; maize in the form of grains, bran, feed flour, germ press cake and gluten; malt sprouts; brewing grains.
2.	Oil seeds, oilseeds products, products of processing thereof and by-products	Rapeseed, rapeseed press cake and rapeseed hulls; soybeans, heated by steam, soybean press cake and hulls of soybeans, sunflower seeds and their press cake, cotton seed and their press cake, flax seeds and their press cake, sesame seed and press cake, palm kernel press cake, winter cress seed press cake and winter cress seed hulls; pumpkin press cake; extracted olive oil cake (through physical extraction of olives).
3.	Grain legumes, products of processing thereof and by-products	Garbanzo in the form of seeds, seeds of French lentils; lathyrus in the form of seeds subjected to appropriate heat treatment; peas in the form of seeds, feed flour, bran, horse beans in the form of seeds, feed flour, bran; broad beans in the form of seeds, vetch and lupins in the form of seeds.
4.		Leached beet chips, sugar beet bagasse, potatoes, sweet potatoes in the form of tubers, cassava in the form of roots, potato pulp (by-product when receiving starch) potato starch, potato protein and sago.
5.	Other seeds and fruits, products and by-products	Carob tree, carob tree pods and products thereof, pumpkin; citrus squeezing residues, apples, quinces, pears, peaches, figs, grapes and bagasse from them; chestnut walnut press cake, hazelnut, cocoa husks and their press cake; acorns.

6.	Green and gross feedstuff	Alfalfa, grass meal from alfalfa, clover, grass meal from clover, green feedstuff (obtained from forage plants), grass meal, hay, silage, straw of grain and root vegetables for green feedstuff.
7.	Other plants, products of processing thereof and by-products	Molasses only as a binder agent in animal compound feedstuff, flour made from seaweed (obtained by drying and grinding of sea algae, followed by washing for reduction of iodine content), extracts and flour of shredded plants, vegetable protein extracts (only for feeding of young stock) spices, herbs.
8.	Milk and dairy products	Raw milk, dry milk, skimmed milk, dry skimmed milk, buttermilk, dried buttermilk, whey, dry whey partially sugar-free, whey protein powder (extracted by physical treatment), dry casein and dry lactose.
9.	Fish and other marine animals, products of processing thereof and by-products	Fish, fish oil and unrefined cod fat obtained by an enzyme method, soluble or insoluble autolysates, hydrolysates and protolysates of parts of fish, invertebrates and crustaceans, only for feeding of young stock, fishmeal.
10.	Feed materials of mineral origin	Sodium (crude sea salt, large rock salt, sodium sulphate, sodium carbonate, sodium bicarbonate, sodium chloride). Calcium (litotamnion and maerl, sinks of aquatic organisms, including bones of cuttlefish, calcium carbonate, calcium lactate, calcium gluconate). Phosphorus (sedimentary bone disubstituted acid calcium phosphate, defluorinated disubstituted calcium phosphate, defluorinated monosubstituted phosphate calcium, calcium-magnesium phosphate, calcium sodium phosphate). Magnesium (magnesium oxide, magnesium sulfate, magnesium chloride, magnesium carbonate, magnesium phosphate). Sulfur (sodium sulfate).
11.	Microelements (the need to be used shall be confirmed in the established manner)	Iron: carbonate (II), sulfate (II) monohydrate and / or heptahydrate, oxide (III). Iodine: calcium iodate (anhydrous), calcium iodate, hexahydrate, potassium iodide. Cobalt: cobalt acid sulfate (II) monohydrate and / or heptahydrate, basic cobalt acid sulfate (II) monohydrate. Copper: oxide (II), basic copper carbonate (II) monohydrate, copper acid sulfate (II) pentahydrate. Manganese: carbon (II), oxide, sulfate (II) mono-and / or tetrahydrate. Zinc: carbon, oxide, sulfate, mono and / or heptahydrate, Molybdenum: molybdate acid ammonium, molybdate acid sodium. Selenium: sodium selenate, sodium selenite.
12.	Vitamins, pro-vitamins and chemically well-defined substances with similar action	Vitamins, pro-vitamins and chemically well-defined substances similar effect are allowed to be used. Preferably, they shall be received from materials naturally contained in feedstuffs. Synthetic vitamins identical to natural, intended only for monogastric animals.

VII. Sanitary-Epidemiological Requirements for Safety and Nutrition Value of Specialised Food Products for Sportsmen

(introduced by Amendments No. 14, approved by Resolution No. 28 of Chief State Sanitary Inspector of the RF dated 05.05.2009)

- 7.1. Food products of specified chemical composition, increased nutrition value and/or intended effectiveness, consisting of a complex of food products or represented by their certain types, which have a specific influence on the improvement of human adaptive capabilities to physical and emotional loads and are intended for achievement of high sport results (hereinafter referred to as the specialised food products for sportsmen) and their components (raw material) shall comply with the hygienic requirements for safety and nutrition value established by these Sanitary Rules including safety parameters of the provisions of Annex 1 and requirements established by technical regulations for certain types of food products.
- 7.2. Vitamins and mineral salts shall be used in the forms specified in Annex 18 of these Sanitary Rules.
- 7.3. The composition of raw material used for the production of specialised food products for sportsmen as well as of ready food products may not include psychotropic, narcotic, toxic, strong, doping substances and/or their metabolites, other prohibited substances which are on the list of WADA (the World Anti-Doping Agency).
- 7.4. Food additives which do not negatively affect human health, specified in Annex 7 of these Sanitary Rules, may be used when manufacturing specialised food products for sportsmen.
- 7.5. Food value criteria, content of proteins, fats and hydrocarbons provided for by Annex 2 and Annex 17 of these Sanitary Rules shall be taken into account when manufacturing specialised food products for sportsmen.
 - 7.6. Specialised food products for sportsmen shall be sold in consumer packaging only.
- 7.7. Quality and safety requirements for specialised food products for sportsmen shall be complied with when developing technical documents governing the issues of manufacturing and turnover of foodstuff and confirmed by sanitary and epidemiological examination of such products to be carried out according to the established procedure.
- 7.8. When carrying out expertise, research (tests) of specialised food products for sportsmen, their declared effectiveness shall be additionally appraised as well as the lack of unfavourable by-reactions shall be confirmed and special features of their use shall be detailed.
- 7.9. Specialised food products for sportsmen shall be allowed for manufacturing, storage, transportation and sale after their state registration.

VIII. Hygienic Requirements for Safety and Nutrition Value of Food Products Enriched with Vitamins and Mineral Substances

(introduced by Amendments and Additions No. 22, approved by Resolution No. 177 of Chief State Sanitary Inspector of the RF dated 27.12.2010)

8.1. Basic Requirements for Enrichment of Food Products with Micronutrients

- 8.1.1. Enrichment of food products by adding one or several vitamins, macro- and/or microelements shall be performed pursuant to the requirements:
- food products of mass consumption used regularly and universally in every day alimentation of adult population and children over 3 years as well as food products which undergone refinement and other processing treatments which result in sufficient losses of vitamins and mineral substances shall be enriched:
- those vitamins and mineral substances shall be used for enrichment, underconsumption and/or deficit symptoms of which are actually detected among the population;
- the use of a more complex set of vitamins, macro- and/or microelements in enriching additives in the form of premixes shall be allowed;
- it shall be allowed to enrich products with vitamins and/or mineral substances regardless of the fact whether they are present or not in the original product;

- the criteria for choice of a list of enriching micronutrients, their dosage and forms shall be safety and effectiveness for the increase of ration food value;
- the number of vitamins and mineral substances additionally added into products enriched by them shall be calculated with regard to their natural content in the original product or raw material used for its manufacturing as well as losses during the manufacturing process or storage so that to ensure the content of these vitamins and mineral substances within the whole storage life of the enriched product at the level not less than the specified one;
- the choice of combination, forms, techniques and stages of addition of enriching additives shall be made with regard to a possible chemical interaction between them and components of the enriched product and shall ensure maximal safety during the manufacturing process and storage;
- enrichment of food products with vitamins and mineral substances shall not deteriorate their consumer properties: decrease the content and absorbency of other food substances contained in them, materially change organoleptic properties of food products, reduce their shelf life;
- enrichment of food products with vitamins and mineral substances shall not influence safety indices:
- the ensured content of vitamins and mineral substances in products enriched by them shall be specified on an individual packaging of such products;
- the effectiveness of addition of vitamins and/or mineral substances into new and specialised food products for the purpose of their enrichment shall be confirmed by special studies proving their safety and capability to improve the provision of vitamins and mineral substances added into the content of enriched products to the organism and positively influence the state of health.
- 8.1.2. The following groups of food products shall be recommended for the enrichment with vitamins and/or mineral substances:
 - flour and bakery products,
 - dairy products,
 - alcohol-free beverage,
- juice products from fruits (including berries) and vegetables (juices, fruit and (or) vegetable nectars, fruit and (or) vegetable juice drinks)
 - fat-and-oil products (vegetable oils, margarines, spreads, mayonnaises, sauces).
 - edible salt.
- grain products (ready breakfasts, extruded and ready for consumption products, macaroni products and cereal instant products),
 - food concentrates (kissels, instant beverages, instant dishes, instant porridge concentrates),
- protein products from grains of cereal, grain legumes and other crops, as well as food products intended for certain population groups:
 - baby food,
 - dietary (curative and prophylactic) food products,
 - functional food products,
 - specialised food products including those with a specified chemical composition.

It is possible to enrich confectionery products (sugary and flour) and fruit and berries concentrates with sugar with vitamins and / or mineral substances.

- 8.1.3. Products of mass consumption shall be enriched with vitamins and/or mineral substances pursuant to the recommendations specified in Annex No. 19 of these sanitary rules.
 - 8.1.4. The following products shall not be enriched with vitamins and mineral substances:
- food products which are not subject to engineering processing (fruits, vegetables, meat, poultry meat, fish),
- fermented beverages as well as beverages with 1.2 % of alcohol content (excluding low-alcohol tonic beverages into which minerals and mineral substances are added for another purpose).

8.2. Forms and List of Vitamins and Mineral Substances Used for the Enrichment of Food Products

- 8.2.1. When manufacturing food products enriched with vitamins and mineral substances, there shall be used the form of vitamins and mineral substances specified in Annex No. 18 and Annex No. 19 of these sanitary rules. It is possible to use vitamin K2 (menaquinone) and calcium L-methylfolate to enrich food products.
- 8.2.2. It is not allowed to enrich food products of mass consumption with natrium, choline, inositol, carnitine, taurine, cuprum, manganese, molybdenum, chromium and selenium except for specialised food products (for sportsmen, dietary (curative and and prophylactic) food products with a specified chemical composition), functional food products and baby food as well as biologically active food additives.
- 8.2.3. When adding a set of micronutrients into enriched products, it is necessary to use food enriching agents vitamin, mineral or vitamin and mineral mixtures (premixes) ready homogeneous mixtures of food enriching agents (vitamins and/or mineral substances) manufactured based on the

carrying agent, which increases the accuracy of addition and ensures more uniform distribution of vitamins and mineral substances in a product being enriched. The use of premixes makes it possible to control the amount of added premix by the content of several micronutrients and, hence, to control the content of other added vitamins and/or mineral substances in ready products added into the composition thereof.

8.3. Specified Levels of Content of Vitamins and Mineral Substances in Enriched Products

8.3.1. The product shall be considered enriched on condition that its averaged daily serve contains from 15 % to 50 % of vitamins and/or mineral substances of the standard of human physiological need. The mass (volume) of the averaged daily serve shall be established by Annex No. 20 of these sanitary rules.

When enriching a food product, supplemental addition of an enriching agent shall be not less than 10 % of the standard of human physiological need.

For enriched high-energy food products (with the energy value of 350 kcal and more per 100 g), the content of vitamins and mineral substances shall be equal from 15 % to 50 % of the standard of human physiological need in terms of 100 kcal (1 standard food serve).

- 8.3.2. When manufacturing enriched food products, it is possible to increase the content of vitamins in them with respect to the declared indicators but not more than by 70 per cent for vitamin C and not more than by 50 per cent for other vitamins due to a natural reduction in the number of vitamins in enriched food products when they are stored during their storage life.
- 8.3.3. The limits of permissible deviations of real content of vitamins and mineral substances in enriched food products from the ensured one (specified on the label at marking) or the one stipulated by the receipt shall amount to:
- +/- 20 % for vitamins C, B1, B2, B6, pantothenic acid, niacin and mineral substances of magnesium, calcium, phosphorus, iron, zink;
 - +/- 30 % for vitamins A, D, E, B12, folic acid, biotin and mineral substance of iodine;
 - +/- 38 % for the mineral substance of iodine in iodine-treated salt.

8.4. Special Requirements for Food Products Enriched with Vitamins and Mineral Substances

- 8.4.1. The developer of enriched food products and (or) their manufacturer shall be obliged to include additionally an ensured content of vitamins and/or mineral substances by the end of storage life into regulatory and technical documentation as well as requirements for their packaging and marking, storage lives and quality and safety control methods.
- 8.4.2. The control of content of vitamins and mineral substances in enriched food products when enriching additives in the form of vitamins and/or vitamin and mineral premixes are added can be performed by the content of several components comprising the content of enriching agents; the manufacturer shall be responsible for the compliance of the number of vitamins and/or mineral substances with the one ensured in the regulatory and technical documentation.
- 8.4.3. Enriched food products shall be produced according to regulatory and technical documentation and shall comply with technical regulations on each type of products; in case there are no such documents, they shall comply with sanitary rules and regulations of the Russian Federation in the sphere of ensuring its quality and safety and shall be confirmed by the declaration of compliance.
- 8. 4. 4. Enriched food products imported into the territory of the Russian Federation shall comply with the legislation of the Russian Federation in the sphere of food product safety and requirements of these sanitary rules.
- 8. 4. 5. The specified content of vitamins and mineral substances in enriched food products shall be controlled by the manufacturer.
- 8. 4. 6. Packaging of enriched food products shall ensure their quality and safety at all stages of products turnover.

The manufacturer of enriched food products shall release them packed and marked according to the Russian Federation legislation and requirements of these sanitary rules, regulatory and technical documentation.

8.5. Requirements for Information at Marking of Food Products Enriched with Vitamins and Mineral Substances

8.5.1. Food products enriched with vitamins and mineral substances shall be accompanied by information for consumers which conforms to the requirements of the Russian Federation legislation.

- 8.5.2. There shall be a word 'enriched' on the consumer packaging of enriched products in the name of such products or close to it. In addition, there shall be names of vitamins and/or mineral substances added into the content of such products, their ensured content by the end of storage life of the food product in mg per 100 g (ml) or averaged daily serve of the product as well as the content of the standard of human physiological need for such food substances expressed in per cent and recommendations for use or special features of use of such products, in case they are established.
- 8.5.3. The use of vitamins (C, E, beta-carotene) as food additives, namely, antioxidants, vitamin B2, beta-carotene and other carotinoids as colouring agents shall not be considered as the ground for specifying the following on the consumer packaging of the product: 'With vitamin...'.
- 8.5.4. Information for consumers about the content of vitamins and/or mineral substances shalll be specified on each unit of consumer packaging of enriched food products, on each unit of multi-unit packaging and on each unit of transportation packaging.

to SanPin 2.3.2.1078-01, approved by Resolution No. 36 of Chief State Sanitary Inspector of the RF dated November 14, 2001

1. HYGIENIC REQUIREMENTS FOR SAFETY AND NUTRITION VALUE OF FOOD PRODUCTS

(as amended by Amendments and Additions No. 2, approved by Resolution No. 41 of Chief State Sanitary Inspector of the RF dated 15.04.2003

No. 9, approved by Resolution No. 30 of Chief State Sanitary Inspector of the RF dated 23.05.2008,

No. 10, approved by Resolution No. 43 of Chief State Sanitary Inspector of the RF dated 16.07.2008,

Amendments No.11, approved by Resolution No. 56 of Chief State Sanitary Inspector of the RF dated 01.10.2008

Amendment No. 16, approved by Resolution No. 6 of Chief State Sanitary Inspector of the RF dated 27.01.2010,

Amendments and Additions No. 18, approved by Resolution No. 71 of Chief State Sanitary Inspector of the RF dated 28.06.2010,

Amendments and Additions No. 22, approved by Resolution No. 177 of Chief State Sanitary Inspector of the RF dated 27.12.2010

Amendment No. 24, approved by Resolution No. 79 of Chief State Sanitary Inspector of the RF dated 01.06.2011)

1.1. Meat and Meat Products; Poultry, Eggs and Products of their Processing

Index, Group of Products	Indicators	Permissible Levels,	Note	
		mg/kg, not more than		
1	2	3	4	
1.1.1. Meat,	Toxic elements:			
· ·	lead			
manufactured		0.5		
products,	arsenic	0.1		
steamed,	cadmium	0.05		
chilled,	mercury	0.03		
slightly frozen,	Antibiotics (excep	ot for wild animals) <	(*>:	
frozen (all	laevomycetin	0.01	Expiring on 01.01.2012.	
types of	(chloramphenicol)			
butchers, trade		0.0003	Shall become effective	
and wild			since 01.01.2012.	
animals),	tetracycline	0.01		
including:	group			
	bacitracin	0.02		
(as amended by Am	nendment No. 24, ap	pproved by Resolution	No. 79 of Chief State	
Sanitary Inspecto	or of the RF dated	01.06.2011)		
	Pesticides <**>:			
	Hexachlorocyclohe			
	xane	0.1		
	(alpha-, beta-,			
	gamma-isomers)			
		0.1		
	metabolites.			
		200	(Bq/kg) Boneless meat	
	caesium - 137	300	the same, boneless	
			venison, boneless meat	
			of wild animals	
			d by Resolution No. 71	
		of the RF dated 28.06		
	Dioxins <***>:	0.000003	beef, mutton (in terms	
			of fat)	
		1	pork (in terms of fat)	
=	(as amended by Amendments and Additions No. 10, approved by Resolution No. 43			
OF OF-F	nitary Inchastor	of the RF dated 16.07	20001	

	Microbiolo	gical	indic	ators:	
Index, group of QMAFAnl				Moulds,	Note
	not products		,	CFU/q,	
	nan in which		CFU/q		
	indicate		not	more	
	not allo		more	than	
	Colifor				
	m	genic			
	bacteri	_			
	a	ria,			
	(colifo	·			
	rms)	ding			
	11113)	Salmo			
		nella			
1 2	3	4	5	6	7
1.1.1.1.					sample collection from
Meat (all types of					the deep layers
butchers):					
- steamed meat in 10	1.0	25			L. monocytogenes in 25 g
carcases, half					are not allowed
carcasses, quarter					
carcasses,					
junctures					
- slightly frozen 1 x 1E3	0.1	25	_	-	the same
meat in carcases,					
half carcasses,					
quarter carcasses,					
junctures	I	I		l	
(as amended by Amendments a Chief State Sanitary Inspec					
- chilled meat in 3	0.1	25			L. monocytogenes in 25 g
carcases, half 1 x 10	Ĭ . <u></u>	[are not allowed. For pro-
Carcases, mair					ducts with the shelf life
carcasses, quarter					
carcasses, iunctures					of not more than 7 days
Jancares					bacteria of the genus Proteus in 0.1 g are not
					_
					allowed. For production
					of baby food, dietary (curative and
					prophylactic) food
					products bacteria of the
					genus Proteus in 1.0 g
(introduced by Translation)	 		0		are not allowed
(introduced by Amendments a					
Chief State Sanitary Inspec	tor of the 0.01				
- chilled meat in 4	0.01	2	1 x 3		L. monocytogenes in 25 g
Janobaros (Sonoroso			10		are not allowed.
or with bone),					Sulfite-reducing
vacuum-packed or					clostridia in 0.01 g are
in modified gas					not allowed
atmosphere		I	ا ا		
(introduced by Amendments a					
Chief State Sanitary Inspec			ted 23		
1.1.1.2. 1 x 1E4	0.01	25	_		L. monocytogenes in 25 g
Frozen meat of					are not allowed
butchers:					
- in carcases,					
half carcasses,					
quarter carcasses,					
junctures	0 001	0.5			
- With bone, 5 x 1E5	0.001	25			the same
boneless, trimmed					
meat blocks					
- meat mass after 5 x 1E6	0.0001	25			the same
butcher deboning					sample preparation

	_					_	
							without flame cleaning of
							the surface
1.1.1.3.							
Boneless meat							
semi-manufactured							
products (chilled,							
slightly frozen,							
frozen), including							
marinated:							
- large-sized	5 x	1E5	0.001	25	_	-	L. monocytogenes in 25 g
							are not allowed
	1 x	1E6	0.001	25	_	_	the same
1.1.1.4.							
Chopped meat semi-							
manufactured							
products (chilled,							
frozen):	F	1.00	0 0001	٥٦		E00 (#)	
- formed,	э х	1E6	0.0001	25	_	500 <^>	L. monocytogenes in 25 g
including bread-							are not allowed;
crumbed							<*> for semi-manufactured
							products with the shelf
	2	1E6	0.0001	25			life of more than 1 month
- Semi-	2 X	TEO	0.0001	23		300 <^>	L. monocytogenes in 25 g
manufactured							are not allowed;
products in dough							<pre><*> for semi-manufactured</pre>
coating,							products with the shelf life of more than 1 month
stuffed (cabbage							life of more than I month
rolls,							
marrows),							
chopped meat							
containing semi- manufactured							
products							
F	l dmo	nta and	l Addition	I No Mo	10 ¬	nnround	hy Possilution No. 71 of
(as amended by Amendments and Additions No. 18, approved by Resolution No. 71 of Chief State Sanitary Inspector of the RF dated 28.06.2010)							
		1E6		25	 	1	L. monocytogenes in 25 g
pork, from meat of	- 11						are not allowed
other butchers							are not arrowed
1.1.1.5.	5 x	1E6	0.0001	25	_	_	L. monocytogenes in 25 g
Meat-bone semi-							are not allowed
manufactured							
products (large-							
sized, chops,							
small-sized)							

Index, Group of Products	Indicators	Permissible Levels, mg/kg, not more than	Note
1	2	3	4
Chilled, frozen offal of butchers (liver, kidneys, tongue, brains, heart), pork skin, alimentary blood and products of processing thereof	arsenic cadmium mercury	1.0 0.3 1.0 0.1	kidneys kidneys kidneys
	Antibiotics, pesticides and radionuclides	according to Clause 1.1.1	
	Dioxins <****:		liver and its products (in terms of fat)

(as amended by Amendments and Additions No. 10, approved by Resolution No. 43 of Chief State Sanitary Inspector of the RF dated 16.07.2008)

Microbiological indicators:						
Index, group of products	CFU/g, not	(g) i	of prod n which ator is	the	Moulds, CFU/g not more than	Note
	and to cream	allowe Colif orm bacte ria (coli	ed Sulfit e- reduci	Pathog enic, includ ing salmon		
1	2	3	4	5	6	7
1.1.2.1. Chilled, frozen, frozen in blocks offal of slaughter cattle, pork skin				25		sample preparation with flame cleaning of the frozen blocks; L. monocyto- genes in 25 g are not allowed
1.1.2.2. Alimentary blood	5 x 1E5	0.1	1.0	25	_	S. aureus in 1 g are not allowed
1.1.2.3. Products of blood processing: - food albumin			1.0	25		S. aureus and Proteus in 1 g are not allowed
- dry concentrate of blood plasma (serum)	5 x 1E4	0.1	1.0	25		

Index, Group of	Indicators	Permissible Levels,	Note			
Products	Indicacois	•	11000			
1	2.	mg/kg, not more than	1			
1.1.3.		Day Matarial and Date	Daniel de la tra			
	_	Raw Material and Fat	Products",			
Beef, pork,	Clause 1.7.4 Dioxins <****:	0.000003				
mutton, and	Dioxins <***>:	0.000003	beef, mutton (in			
other butchers			terms of fat)			
raw tallow		0.000001	pork (in terms			
(chilled,			of fat)			
frozen), salted						
pork fat and						
products thereof						
(as amended by Amendments and Additions No. 10, approved by Resolution No. 43 of Chief State Sanitary Inspector of the RF dated 16.07.2008)						
1.1.4.	Toxic elements:					
Sausage products	lead					
<***>,products	arsenic	0.5				
from meet of all	cadmium	0.1				
butchers,	mercury	0.05				
culinary	_	0.03				
products from	Benz(a)pyrene	0.001	for smoked			
meat			products			
	Antibiotics,					
	pesticides and	according to Clause				
	radionuclides	1.1.1				
	Nitrosamines: Sum		for smoked			
	of N-	0.002	products			
	Nitrosodimethylam	0.004				
	ine and N-					
	Nitrosodiethylami					
	ne					
		0.000003	from beef,			
			mutton (in terms			
			of fat)			
		0.000001	from pork (in			
			terms of fat)			
(as amended by Amendments and Additions No. 10, approved by Resolution						
No. 43 of Chief State Sanitary Inspector of the RF dated 16.07.2008)						

Index, group of	Microbi QMAFAnM,		of prod			Note
products	CFU/g, not		_		_	
	_	allow				
		Colif	Sulfit	S.aur	Pathogen	
		orm	e-	eus	ic,	
		bacte	reduci		includin	
		ria	ng		g	
			clostr		salmonel	
		forms	idia		la	
1)	4	_	C	7
1.1.4.1.	2	3 0.1	0.01	5 1.0	6 25	E. coli - in 1
1.1.4.1. Sausages and		0.1	0.01	1.0	2.5	g are not
products from						allowed; L.
butchers meat, raw						monocytogenes
smoked and raw						in 25 g are not
cured, including						allowed
cut and vacuum-						
packaged						
1.1.4.2.	_	1.0	0.01	1.0	25	L.
Semi-smoked and						monocytogenes
cooked and smoked						in 25 g are not
sausages		1 0	0 1	1 ^	0.5	allowed -
1.1.4.3.		1.0	0.1	1.0	25	L.
Cooked and smoked						monocytogenes
and semi-smoked sausages the shelf						in 25 g are not allowed
sausages the shell life of which						allowed
exceeds 5 days,						
including cut and						
vacuum-packaged,						
in modified						
atmosphere						
1.1.4.4.	1 x 1E3	1.0	0.01	1.0	25	L. monocyto-
Cooked sausage						genes in 25 g
products						are not allowed
(sausages, sausage						in sausage
rolls,						rolls and
frankfurters, meat						frankfurters
loaves) - of the best and first						
category, without						
a category						
(as amended by Amer	ı ndments and	Addit	ı ions No	. 18,	approved	bv Resolution
No. 71 of Chief Sta						_
- of the second	2.5 x 1E3		1	1	25	L.
and third category						monocytogenes
						in 25 g are not
	I					allowed
(as amended by Amer						_
No. 41 of Chief Sta	_	_				
Amendments and Addi						NO. /I OF Chief
State Sanitary Insp 1.1.4.5.		1.0			2010) 25	l _T .
1.1.4.5. Cooked sausages		1.0		1.0		L. monocytogenes
with addition of						in 25 g are not
preserving agents,						allowed
including						
delicatessen						
	· · · · · · · · · · · · · · · · · · ·	7 -1 -1 '		1 0		lass Decelled
(as amended by Amer No. 71 of Chief Sta						
1.1.4.6.	1 x 1E3	1.0	0.1	1.0	25	L.
Cooked sausages	<*>					monocytogenes

which exceeds 5 days, cut and vacuum-packaged, in modified atmosphere						allowed
(as amended by Amen No. 71 of Chief Sta						-
1.1.4.7. Cooked meat products: gammon, pork and beef rolls, pressed beef and pork, ham, bacon, pressed meat of pork heads, mutton in a form	1 x 1E3	1.0	0.1		25	L. monocytogenes in 25 g are not allowed
(as amended by Amen No. 71 of Chief Sta						
1.1.4.8. Smoked and cooked meat products: - gammons, rolls, daisy, brisket, neck, pork cured fillet and in coating	1 x 1E3	1.0	0.1	_	25	L. monocytogenes in 25 g are not allowed
(as amended by Amen No. 71 of Chief Sta						
- cheek meat (whiskers), fore shank	1 x 1E3	1.0	0.01		25	L. monocytogenes in 25 g are not allowed
Smoked and baked,		Inspe	ector o	f the	RF dated	28.06.2010) L. monocytogenes
baked meat products						in 25 g are not allowed
(as amended by Amen No. 71 of Chief Sta 1.1.4.10. Cooked, baked, cooked and baked products the shelf life of which exceeds 5 days, including cut and vacuumpackaged, in modified atmosphere	te Sanitary	Inspe	ector o	f the		
(as amended by Amen No. 71 of Chief Sta						
		0.01		11	25	L. monocytogenes in 25 g are not allowed

(as amended by Amen No. 71 of Chief Sta				•		-
- from chopped	2 x 1E4	0.01	(0.1	25	L.
meat with sauces;						monocytogenes
pancakes with						in 25 g are not
stuffing from meat						allowed
and by-products,						
etc.						
(as amended by Amen	dments and .	Additi	ons No.	18,	approved	by Resolution
No. 71 of Chief Sta	te Sanitary	Inspe	ctor of	the	RF dated	28.06.2010)

Index, Group of Products	Indicators	Permissible Levels, mg/kg, not more	Note
1	2	3	4
1.1.5. Meat products with the use of by-products (pates, liver sausages, headcheese, broth jelly, etc.) and blood. Cooked products with the use of	Toxic elements:	according to Clause 1.1.2	
by-products, blood, chilled	Benz(a)pyrene and nitrosamines	according to Clause 1.1.4	
broth jellies,	Antibiotics, pesticides and radionuclides	according to Clause 1.1.1	
94444074107	Dioxins <***>:	according to Clause 1.1.2	

Index, group of		robiolog				No+o
	QMAFAnM,			lucts (g)		Note
products	_	not which		dicator	is not	
	more tha			1	1	=
		Colif	Sulfit	S.aureu	Pathoge	
		orm	e-	S	nic,	
		bacte	reduci		includi	
		ria -	ng		ng	
		(coli	clostr		salmone	
		forms	idia		lla	
)				
1	2	3	4	5	6	7
1.1.5.1.	2 x 1E3	1.0	0.01	- <*>	25	<*> for pro-
Blood sausages						ducts, the
						shelf life of
						which exceeds 2
						days: S. aureus
						in 1.0 g is not
						allowed;
						sulfite-
						reducing
						clostridia in
						0.1 g are not
	2 1 2	1 0	0 1	245	0.5	allowed <*>
1.1.5.2.	2 x 1E3	1.0	0.1	- <*>	25	
Headcheese,						S. aureus in
salceson						1.0 g are not
				l	1	allowed
(as amended by Am No. 71 of Chief S						by Resolution
1			-			28.06.2010)
1.1.5.3.	2 x 1E3	1.0	0.01		RF dated 25	28.06.2010) <*> for
1.1.5.3. Liver sausage	2 x 1E3	1.0	-			1
	2 x 1E3	1.0	-			<*> for
	2 x 1E3	1.0	-			<pre><*> for products, the</pre>
	2 x 1E3	1.0	-			<pre><*> for products, the shelf life of which exceeds 2</pre>
	2 x 1E3	1.0	-			<pre><*> for products, the shelf life of which exceeds 2 days:</pre>
	2 x 1E3	1.0	-			<pre><*> for products, the shelf life of which exceeds 2 days: S. aureus in</pre>
	2 x 1E3	1.0	-			<pre><*> for products, the shelf life of which exceeds 2 days: S. aureus in 1.0 g are not</pre>
	2 x 1E3	1.0	-			<pre><*> for products, the shelf life of which exceeds 2 days: S. aureus in 1.0 g are not allowed;</pre>
	2 x 1E3	1.0	-			<pre><*> for products, the shelf life of which exceeds 2 days: S. aureus in 1.0 g are not allowed; sulfite-</pre>
	2 x 1E3	1.0	-			<pre><*> for products, the shelf life of which exceeds 2 days: S. aureus in 1.0 g are not allowed; sulfite- reducing</pre>
	2 x 1E3	1.0	-			<pre><*> for products, the shelf life of which exceeds 2 days: S. aureus in 1.0 g are not allowed; sulfite- reducing clostridia in</pre>
	2 x 1E3	1.0	-			<pre><*> for products, the shelf life of which exceeds 2 days: S. aureus in 1.0 g are not allowed; sulfite- reducing clostridia in 0.1 g are not -</pre>
Liver sausage			0.01	- <*>	25	<pre><*> for products, the shelf life of which exceeds 2 days: S. aureus in 1.0 g are not allowed; sulfite- reducing clostridia in 0.1 g are not - allowed</pre>
Liver sausage	2 x 1E3	1.0	-		25	<pre><*> for products, the shelf life of which exceeds 2 days: S. aureus in 1.0 g are not allowed; sulfite- reducing clostridia in 0.1 g are not - allowed <*> for</pre>
Liver sausage 1.1.5.4. Pates from liver			0.01	- <*>	25	<pre><*> for products, the shelf life of which exceeds 2 days: S. aureus in 1.0 g are not allowed; sulfite- reducing clostridia in 0.1 g are not - allowed <*> for products, the</pre>
1.1.5.4. Pates from liver and (or) meat,			0.01	- <*>	25	<pre><*> for products, the shelf life of which exceeds 2 days: S. aureus in 1.0 g are not allowed; sulfite- reducing clostridia in 0.1 g are not - allowed <*> for products, the shelf life of</pre>
1.1.5.4. Pates from liver and (or) meat, including in			0.01	- <*>	25	<pre><*> for products, the shelf life of which exceeds 2 days: S. aureus in 1.0 g are not allowed; sulfite- reducing clostridia in 0.1 g are not - allowed <*> for products, the</pre>
1.1.5.4. Pates from liver and (or) meat,			0.01	- <*>	25	<pre><*> for products, the shelf life of which exceeds 2 days: S. aureus in 1.0 g are not allowed; sulfite- reducing clostridia in 0.1 g are not - allowed <*> for products, the shelf life of</pre>
1.1.5.4. Pates from liver and (or) meat, including in			0.01	- <*>	25	<pre><*> for products, the shelf life of which exceeds 2 days: S. aureus in 1.0 g are not allowed; sulfite- reducing clostridia in 0.1 g are not - allowed <*> for products, the shelf life of which exceeds 2</pre>
1.1.5.4. Pates from liver and (or) meat, including in			0.01	- <*>	25	<pre><*> for products, the shelf life of which exceeds 2 days: S. aureus in 1.0 g are not allowed; sulfite- reducing clostridia in 0.1 g are not - allowed <*> for products, the shelf life of which exceeds 2 days:</pre>
1.1.5.4. Pates from liver and (or) meat, including in			0.01	- <*>	25	<pre><*> for products, the shelf life of which exceeds 2 days: S. aureus in 1.0 g are not allowed; sulfite- reducing clostridia in 0.1 g are not - allowed <*> for products, the shelf life of which exceeds 2 days: S. aureus in</pre>
1.1.5.4. Pates from liver and (or) meat, including in			0.01	- <*>	25	<pre><*> for products, the shelf life of which exceeds 2 days: S. aureus in 1.0 g are not allowed; sulfite- reducing clostridia in 0.1 g are not - allowed <*> for products, the shelf life of which exceeds 2 days: S. aureus in 1.0 g are not allowed; L.</pre>
1.1.5.4. Pates from liver and (or) meat, including in			0.01	- <*>	25	<pre><*> for products, the shelf life of which exceeds 2 days: S. aureus in 1.0 g are not allowed; sulfite- reducing clostridia in 0.1 g are not - allowed <*> for products, the shelf life of which exceeds 2 days: S. aureus in 1.0 g are not allowed; L. monocytogenes</pre>
1.1.5.4. Pates from liver and (or) meat, including in			0.01	- <*>	25	<pre><*> for products, the shelf life of which exceeds 2 days: S. aureus in 1.0 g are not allowed; sulfite- reducing clostridia in 0.1 g are not - allowed <*> for products, the shelf life of which exceeds 2 days: S. aureus in 1.0 g are not allowed; L. monocytogenes in 25 g are not</pre>
1.1.5.4. Pates from liver and (or) meat, including in			0.01	- <*>	25	<pre><*> for products, the shelf life of which exceeds days: S. aureus in 1.0 g are not allowed; sulfite- reducing clostridia in 0.1 g are not allowed <*> for products, the shelf life of which exceeds days: S. aureus in 1.0 g are not allowed; L. monocytogenes</pre>

llies, aspic, lantines, etc.)

Index, Group of	Indicators	Permissible Levels,	Note
Products		mg/kg, not more	
1	2	3	4
1.1.6.	Toxic elements:		
Canned meat,	lead		
meat and cereal		0.5	
<***>		1.0	for canned food
			in assembled tin
			container
	arsenic	0.1	
	cadmium	0.05	
		0.1	for canned food
			in assembled tin
			container
	mercury	0.03	
	stannum	200.0	for canned food
			in assembled tin
			container
	chrome	0.5	for canned food
			in assembled tin
			container
	Pesticides <**>:	0.1	
	Hexachlorocyclohe		
	xane		
	(alpha-, beta-,		
	gamma-isomers)		
	DDT and its	0.1	
	metabolites		
	Nitrosamines:		
	Sum of N-	0.002 <*>	<*> for canned
	Nitrosodimethylam		food with the
	ine and N-		use of sodium
	Nitrosodiethylami		nitrite
	ne		
	Nitrates	200	meat and cereal
			with vegetables
	Radionuclides	according to Clause	
		1.1.1	
	Dioxins	according to Clause	
	<**** :	1.1.1	

İ		
	Microbiological indicators:	
Index, Group of		
Products		
1.1.6.1.	Shall satisfy requirements for industrial sterility	for
Pasteurized	canned food of group "D" in accordance with Annex 8	to
canned food:	these Sanitary Rules	
 from beef and 		
pork		
 chopped and 		
Lyubitelskaya		
ham		
1.1.6.2.	Shall satisfy requirements for industrial sterility	for
Sterilized	canned food of group "A" in accordance with Annex 8	to
canned food from	these Sanitary Rules	
beef, pork,		
horse meat,		
etc.:		
- natural		
- with cereal,		
vegetable		
garnish		

	I= 11 .		h
inden, croup or	Indicators	Permissible Levels,	Note
Products		mg/kg, not more	
1	2	3	4
1.1.7.	Toxic elements:		
Canned food from			
by-products,	lead	0.6	
including pate	1044	1.0	for canned food
canned food			in assembled tin
(from all types			container
of butcher and	arsenic	1.0	container
fur-bearing	cadmium	0.3	
animals)	Cadillulli		1 1 1
allimais,		0.6	kidneys
	mercury	0.1	
		0.2	kidneys
	stannum	200.0	for canned food
			in assembled tin
			container
	Chrome	0.5	for canned food
			in chromed
			containers
	Nitrosamines: Sum	0.002	
	of N-		
	Nitrosodimethylam		
	ine and N-		
	Nitrosodiethylami		
	ne		
	Antibiotics,	according to Clause	
	pesticides and	1.1.1	
	radionuclides		
	radionacitaes		
	Mi 1- i - 1 i 1	C+	1 -1 -11+ -6
	Microbiological	Sterilized canned for	
	indicators:	requirements for indu	_
		for canned food of gr	-
		accordance with Annex	8 to these
		Sanitary Rules	
	Dioxins	according to Clause	
	<**** :	1.1.2	
		I	

1.1.8. Meat of sublimation drying and heat dehydration	101110 01011100	1.1.1	in terms of original product subject to content of dry substances in it and final product
	Nitrosamines: sum of N- Nitrosodimethylam ine and N- Nitrosodiethylami ne	0.002	
		according to Clause 1.1.1	

Dioxins	according to Clause	
<****> :	1.1.1	

	Micr	obiologic	al indicators	:	
	CFU/g,	_			Note
		bacteria	Pathogenic including salmonella		
1.1.8.1. Dry food concentrates from meat or by- products	2.5 x 1E4	1.0	25	100	

Index, Group of	Indicators	Permissible Levels,	Note				
Products		mg/kg, not more					
1	2	3	4				
1.1.9.	Toxic elements:						
Poultry,	lead						
including semi-		0.5					
manufactured	arsenic	0.1					
products,	cadmium	0.05					
chilled, frozen	mercury	0.03					
(all types of	Antibiotics (exce	Antibiotics (except for wild birds) <*>:					
poultry for	laevomycetin	0.01	Expiring on				
slaughter, wild	(chloramphenicol)		01.01.2012.				
fowl)	_	0.0003	Shall become				
			effective since				
			01.01.2012.				
	tetracycline	0.01					
	group						
	bacitracin	0.02					

(as amended by Amendment No. 24, approved by Resolution No. 79 of Chief State Sanitary Inspector of the RF dated 01.06.2011)

1		•
Pesticides <**>:		
Hexachlorocyclohe	0.1	
xane		
(alpha-, beta-,		
gamma-isomers),		
DDT and its	0.1	
metabolites		
Dioxins	0.000002	poultry (in
<****		terms of fat)

(as amended by Amendments and Additions No. 2, approved by Resolution No. 41 of Chief State Sanitary Inspector of the RF dated 15.04.2003, No. 10, approved by Resolution No. 43 of Chief State Sanitary Inspector of the RF dated 16.07.2008, No. 18, approved by Resolution No. 71 of Chief State Sanitary Inspector of the RF dated 28.06.2010)

	Micro	biological in	ndicators:		
Index, group of	QMAFAnM,		ducts (g) in	Note	
products	CFU/g, not	which the in	_		
	more than	not allowed			
		Coliform	Pathogenic	7	
		bacteria -	including		
		(coliforms)	salmonella		
1	2	3	4	5	
1.1.9.1.				Sample collection	
Poultry carcass				from the deep layers	
and meat				of muscles	
- chilled	1 x 1E4		25	L. monocytogenes in	
				25 g are not allowed	
- frozen	1 x 1E5		25	L. monocytogenes in	
				25 g are not allowed	
- packaged,	5 x 1E5		25	the same	
chilled, slightly					
frozen, frozen					
1.1.9.2.					
Natural semi-					
manufactured					
products from					
poultry meat:					
- sludge and bone,	1 x 1E5		25	L. monocytogenes in	
boneless without				25 g are not allowed	
coating					
- sludge and bone,	1 x 1E6		25	the same	
boneless with					
coating, with					
spices, sauce,					
marinated					
- lump boneless	1 x 1E6		25	the same	
meat in blocks					
(as amended by Amer	ndments and .	Additions No.	2, approved	by Resolution No. 41	
of Chief State Sans					
1.1.9.3.	1	1	1	1	
Chopped semi-					
manufactured					
products from					
poultry meat					
(chilled, slightly					
frozen, frozen):					
- in dough	1 x 1E6	0.0001	25	L. monocytogenes in	
coating,				25 g are not allowed	
- in natural	1 x 1E6		25	the same	
coating, including					
kupaty					
- in coating and	1 x 1E6		25	the same	
without it					
1.1.9.4.	1 x 1E6		25	L. monocytogenes in	
Mechanically				25 g are not allowed	
separated poultry				g are not arrowed	
meat, bone					
residue, chilled,					
frozen in blocks,					
frozen semi-					
manufactured bone					
products.					
1.1.9.5.	1 x 1E6	-	25	the same	
Poultry skin					
		•	•	•	

Index, group of products	Indicators	Permissible Levels, mg/kg, not more	Note
1.1.10 Poultry offal, semi- manufactured products from them	Toxic elements: lead arsenic cadmium mercury	0.6 1.0 0.3 0.1	
	Antibiotics, pesticides	according to Clause 1.1.9	
	Dioxins <***>:	0.000006	poultry liver (in terms of fat)

	Microbi	ological indi	cators:	
Index, group of products	- '	Mass of produ which the ind allowed	Note	
		Coliform bacteria - (coliforms)	Pathogenic including salmonella	
1.1.10.1. Poultry offal, semi-manufactured products from them	1 x 1E6	-	25	L. monocytogenes in 25 g are not allowed

Index, Group of	Indicators	Permissible Levels,	Note
Products		mg/kg, not more	
1	2	3	4
1.1.11.	Toxic elements:		
Sausage products, smoked products, culinary	Cadmium	0.5 0.1 0.05 0.03	
products with the use of poultry	Benz (a) pyrene Nitrosamines: Sum of N- Nitrosodimethylam ine and N-	0 004	for smoked products for smoked products
	Nitrosodiethylami ne Antibiotics, pesticides Dioxins <****>:	according to Clause 1.1.9 according to Clause 1.1.9	

Microbi	ologic	al ind	icato	rs:	
QMAFAnM, CFU/g, not more than	which allowe Colif orm bacte ria - (coli	the in ed Sulfit e- reduci ng clostr	S. au- reus	Pathogeni c, including salmo-	Note
2	3	4			7 E. coli - in
					1.0 g are not allowed; L. monocytogenes in 25 g are not allowed
	0.1	0.1	1.0	25	E. coli - in 1.0 g are not allowed; L. monocytogenes in 25 g are not allowed
-	1.0	0.01			
	QMAFAnM, CFU/g, not more than	QMAFANM, CFU/g, not which allows Coliform bacte ria - (coli forms) 2 3 0.1	QMAFANM, CFU/g, not which the in allowed Colif Sulfit orm e-bacte reduciria - ng (coli clostr forms idia) 2 3 4 0.1 0.01 0.1 0.1	QMAFANM, CFU/g, not which the indicate allowed Colif Sulfit S. orm e- bacte reduci ria - ng (coli clostr forms idia) 2 3 4 5 0.1 0.01 1.0	CFU/g, not more than which the indicator is not allowed Colif Sulfit S. Pathogeni orm e- au- c, including ria - ng (coli clostr forms idia) 2 3 4 5 6 0.1 0.01 1.0 25

modified	ı		ı		ĺ	I	
atmosphere							
1.1.11.4. Cooked sausage products (sausages, meat loaves, sausage rolls, frankfurters, meat rolls, ham, etc.)	1 :	x 1E3	1.0	0.1	1.0	25	L. monocyto- genes in 25 g are not allowed for sausage rolls and frankfurters
1.1.11.5. Cooked and smoked sausages	_		1.0	0.1	1.0	25	
	1 :	x 1E3	1.0	0.1	1.0	25	
<u> </u>	1 :	x 1E3	1.0	0.1	1.0	25	E. coli in 1.0 g are not allowed L. monocytogenes in 25 g are not allowed
1.1.11.8. Culinary products from chopped meat	1 :	x 1E3	1.0	0.1	1.0	25	
1.1.11.9. Ready- to-eat quick frozen meals from poultry: - fried,	1 :	x 1E4	0.1		1.0	25	Enterococcus not more than 1 x 1E3 CFU/g
meat with sauces and/or garnish		x 1E4	0.1	_		25	the same
(as amended by Amer							

No. 41 of Chief State Sanitary Inspector of the RF dated 15.04.2003)

Index, Group of Products	Indicators	Permissible Levels, mg/kg, not more	Note
1	2	3	4
1.1.12. Meat products with the use of poultry by-	Toxic elements	according to Clause 1.1.10	
products, skin (pates, liver sausages, etc.)	Benz(a)pyrene and nitrosamines	according to Clause 1.1.4	
	Antibiotics, pesticides	according to Clause 1.1.9	
	Dioxins <***>:	according to Clause 1.1.10	

	Microbi	ologic	al ind	icato	rs:	
Index, group of	QMAFAnM,	Mass o	of prod	ucts	(g) in	Note
products	CFU/g, not	which	the in	dicat	or is not	
	more than	allow	ed			
		Colif	Sulfit	S.au	Pathogeni	1
		orm	e-	reus	С,	
		bacte	reduci		including	
		ria -	ng		salmonell	
		(coli	clo-		a	
		forms	stri-			
)	dia			
1	2	3	4	-	6	7
1.1.12.1. Pates	2 x 1E3	1.0	0.1	1.0	25	L.
from poultry,						monocytogenes
including the ones						in 25 g are not
produced with the						allowed
use of giblets						
1.1.12.2. Pates	5 x 1E3	1.0	0.1	0.1	25	L.
from poultry liver						monocytogenes
						in 25 g are not
		ļ				allowed
1.1.12.3. OCITICA	2 x 1E3	1.0	0.1	1.0	25	
products from						
poultry:						
headcheese, broth						
jelly,						
galantine, etc.,						
including made						
dishes with the						
use of meat of						
butcher animals	F 1.00	1 0	0 1	1 0	2.5	
1.1.12.4. Liver	5 x 1E3	1.0	0.1	1.0	25	
sausages from						
poultry and by-						
products						

Index, Group of	Indicators	Permissible Levels,	Note
Products		mg/kg, not more	
1	2	3	4
1.1.13.	Toxic elements:		
Poultry canned food (from poultry and meat and cereal <*>, including pates	lead	0.5 0.6 1.0	Pates for canned food in assembled tin container
and minced meat)	cadmium	1.0 0.05 0.3 0.1	Pates Pates for canned food in assembled tin
	mercury stannum	0.03 0.1 200.0	container Pates Pates for canned food in assembled tin
	chrome Nitrosamines: sum of N- Nitrosodimethylam ine and N- Nitrosodiethylami	0.5 0.002	container The same

ne		
Pesticides <**>:	0.1	
Hexachlorocyclohe		
xane		
(alpha-, beta-,		
gamma-isomers),		
DDT and its		
metabolites		
Nitrates	200	Meat and cereal
Antibiotics,	according to Clause	
pesticides	1.1.9	
Dioxins	according to Clause	
<****> :	1.1.9	

	Microbiological indicators:	
Index, group of products		
1.1.13.1. Pasteurized poultry canned food	Shall satisfy requirements for industrial sterility canned food s of group "D" in accordance with Annex to these Sanitary Rules	
1.1.13.1. Pasteurized poultry canned food with and without vegetable additives, including pates	Shall satisfy requirements for industrial sterility canned food of group "A" in accordance with Annex 8 these Sanitary Rules	

Index, Group of	Indicators	Permissible Levels,	Note
Products		mg/kg, not more	
1	2	3	4
1.1.14. Poultry products of sublimation drying and heat dehydration	Toxic elements	1.1.9	In terms of original product subject to content of dry substances in it and final product
		according to Clause 1.1.13	
	Antibiotics, pesticides	according to Clause 1.1.9	
		according to Clause 1.1.9	

	Micro	biological in	dicato	ors:		
Index, group of products		which the ind	Mass of products (g) in - which the indicator is not			
		Coliform bacteria - (coliforms)	aure- us	Pathogeni c, including salmo- nella		
1	2	3	4	5	6	
1.1.14.1. Chicken minced meat of sublimation drying	1 x 1E4	0.01	0.1	25	Proteus in 1 g are not allowed	
1.1.14.2. Chicken minced meat of heat dehydration	5 x 1E3	0.1	0.1	25	the same	
1.1.14.3. Dry products from poultry meat;	1 x 1E4	0.1	0.01	25	the same	

Index, Group of	Indicators	Permissible Levels,	Note		
Products		mg/kg, not more			
1	2	3	4		
1.1.15.	Toxic elements:				
Eggs and liquid		0.3			
egg products		0.1			
(egg melange,		0.01			
white, yolk)	mercury Antibiotics <*>:	0.02			
	laevomycetin	0.01	Expiring on		
	(chloramphenicol)		01.01.2012.		
		0.0003	Shall become		
			effective since		
			01.01.2012.		
	tetracycline	0.01			
	group				
	bacitracin	0.02			
(as amended by Ar	mendment No. 24, ap	oproved by Resolution	No. 79 of Chief		
State Sanitary In	spector of the RF	dated 01.06.2011)			
	Pesticides <**>:				
	Hexachlorocyclohe	0.1			
	xane				
	(alpha-, beta-,				
	gamma-isomers)				
	-	0.1			
	metabolites				
		0.000003	Hen eggs and		
	<**** :		products thereof		
			(in terms of		
			fat)		
(as amonded lass 75	l nondmonta and Addit	<u></u>	,		
(as amended by Amendments and Additions No. 10, approved by Resolution					

	Microbi	ologic	al ind	dicato	rs:	
Index, group of products	QMAFAnM, CFU/g, not more than		the i		1 3 /	Note
		Coliform bacte ria - (coli forms)	aureu s		Pathogeni c, including salmonell a	
1	2	3	4	5	6	7
1.1.15.1. Dietary hen, quail egg	1 x 1E2	0.1	_	_		<pre><*> the analysis shall be carried out for yolks</pre>
1.1.15.2. Hen eating egg and eggs of other birds	5 x 1E3	0.01	_	_	5 x 25 <*>	<*> the same
1.1.15.3. Liquid egg products: - egg mixtures for omelette, filtered, pasteurized	1 x 1E5	0.1	1.0	1.0	25	
- frozen: egg melange, white, yolk, including with salt and sugar, mixtures for omelette	5 x 1E5	0.1	1.0	1.0	25	

Index, Group of Products	Indicators	Permissible Levels, mg/kg, not more	Note
1	2	3	4
1.1.16. Dry egg products (egg powder, white, yolk)	Toxic elements: lead arsenic cadmium mercury Antibiotics, pesticides	3.0 0.6 0.1 0.1 according to Clause 1.1.15	In terms of original product
	Dioxins <***>:	according to Clause	subject to content of dry substances in it and final product

	Microbiological indicators:					
Index, group of	QMAFAnM,	Mass of	products	s (g)	in which	Note
products	CFU/g, not	the indi	cator i	s not	allowed	
	more than	Colifor	S.	Pro-	Pathogeni	
		m	aureus	teus	С,	
		bacteri			including	
		a -			salmo-	
		(colifo			nella	
		rms)				
1.1.16.1. Egg	5 x 1E4	0.1	1.0	1.0	25	
powder, egg						
melange for						
enteral nutrition						
products						
1.1.16.2. Dry egg	1 x 1E5	0.1	1.0	1.0	25	
melange, white,						
yolk, mixtures						
for omelette						
1.1.16.3. Egg						
products of						
sublimation						
drying						
- yolk	5 x 1E4	0.01	1.0	-	25	
- white,	1 x 1E4	0.1	1.0	-	25	
albumin						

Index, Group of Products	Indicators	Permissible Levels, mg/kg, not more	Note
1.1.17. Dry egg white (albumin)	Toxic elements: lead arsenic cadmium mercury Antibiotics, pesticides	0.5 0.2 0.05 0.03 according to Clause 1.1.15	In terms of original product subject to
			content of dry substances in it and final product
	Microbiological indicators	according to Clause 1.1.16.3	
_		tions No. 2, approved pector of the RF date	-

18, approved by Resolution No. 71 of Chief State Sanitary Inspector of the RF dated 28.06.2010)

<*> It is also required to control residual quantities of the antibiotics used for production of food raw material (see Clause 3.15).

(the note is amended by Amendments and Additions No. 22, approved by Resolution No. 177 of Chief State Sanitary Inspector of the RF dated 27.12.2010)

- <*> It is also required to control residual quantities of the pesticides used for production of food raw material (see Clauses 3.12, 3.13).
- <***> For sausage products and meat and cereal canned food the calculation of safety indicators shall be made for the basic type(s) of raw material, both by the mass fraction and by permissible levels of controlled contaminants.

Note:

- <****> the maximum level shall not be applied to products containing less than 1% of fat;
- hereinafter dioxins shall be understood to represent the sum of polychlorinated dibenzo-p-dioxins (PCDD) and polychlorinated dibenzofurans (PCDF), expressed as a sum of toxic equivalency factors (TEF) according to the WHO scale (WHO-TEFs):

TOXIC EQUIVALENCY FACTORS (according to WHO scale) <*>

Congener	TEF Value
Congener	in value
Dibenzo-p-dioxin (PCDD)	
2,3,7,8-Tetrachlorodibenzodioxin	1
1,2,3,7,8-Pentachlorodibenzodioxin	1
1,2,3,4,7,8-Hexachlorodibenzodioxin	0.1
1,2,3,4,7,8-Hexachlorodibenzodioxin	0.1
1,2,3,7,8,9-Hexachlorodibenzodioxin	0.1
1,2,3,7,0,9 Hexachiologipenzogioxin	J . 1
1,2,3,4,6,7,8-Heptachlorodibenzodioxin	0.01
Octachlorodibenzodioxin	0.0001
Dibenzofurans (PCDF)	
2,3,7,8-Tetrachlorodibenzofuran	0.1
1,2,3,7,8-Pentachlorodibenzofuran	0.05
2,3,4,7,8-Pentachlorodibenzofuran	0.5
z, s, 4, /, s-rentachiorodipenzoruran	V.3
1,2,3,4,7,8-Hexachlorodibenzofuran	0.1
1,2,3,1,,0 hexachiologizotatan	
1,2,3,6,7,8-Hexachlorodibenzofuran	0.1
1,2,3,7,8,9-Hexachlorodibenzofuran	0.1
2,3,4,6,7,8-Hexachlorodibenzofuran	0.1
1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.01
1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.01
Oktachlorodibenzofuran	0.0001
Oktachiorodibenzoiuran	0.0001
(Alternatives introduced by Assessment and Additions	

(the note was introduced by Amendments and Additions No. 10, approved by Resolution No. 43 of Chief State Sanitary Inspector of the RF dated 16.07.2008)

<*> 1 pg TEF means that this is a mixture of PCDD and PCDF which corresponds to 1 pg of 2,3,7,8-Tetrachlorodibenzodioxin (TCDD).

1.2. Milk and Milk Products

Index, group of	Indicators	Permissible levels,	Note
products		mg/kg(l), not more	
		than	
1	2	3	4
1.2.1.	Toxic elements:		
Milk, raw and	lead		
heat treated	arsenic	0.1	
cream,	cadmium	0.05	
buttermilk, milk	mercury	0.03	
whey, liquid		0.005	
fermented milk	Mycotoxins:	0.0005	
products,	aflatoxin M1		
including	Antibiotics <*>:		
yoghurt, sour	laevomycetin	0.01	Expiring on
cream, milk	(chloramphenicol)		01.01.2012.
based drinks		0.0003	Shall become
			effective since
			01.01.2012.
	tetracycline	0.01	
	group		
	penicillins	0.004	
	streptomycin	0.2	
(as amended by Ar	mendment No. 24, a	pproved by Resolution	No. 79 of Chief
State Sanitary I	nspector of the RF	dated 01.06.2011)	
	Inhibitory	not allowed	milk and raw

substances: Pesticides <**>: Hexachlorocyclohe xane (alpha-, beta-, gamma-isomers) 1.25 DDT and its metabolites Pesticides: Caesium - 137 Dioxins <***>: Dioxins <****>: D.05 Milk, buttermilk, milk based drinks, cream, sour cream in terms of fat Dot the same Radionuclides: Caesium - 137 Dioxins <***>: Dioxins <****>: Dioxins <****>: D.05 Milk, buttermilk, milk whey, liquid fermented liquid milk products, milk based drinks, cream, sour cream in terms of fat Company the same Dioxins <****>: Dioxins <*****>: Dioxins <****>: Dioxins <****	Inhibitory	not allowed	milk and raw
Hexachlorocyclohe xane (alpha-, beta-, gamma-isomers) DDT and its DDT and its metabolites Radionuclides: Caesium - 137 Strontium-9 0 Dioxins <***>: 0.000003	substances:		cream
<pre>xane (alpha-, beta-, gamma-isomers) 1.25 DDT and its metabolites 1.0 Radionuclides: Caesium - 137 Radionuclides: Caesium - 137 Dioxins <***>: Dioxins <****>: whey, liquid fermented liquid milk products, milk whey, liquid fermented liquid milk products, milk based drinks, cream, sour cream in terms of fat Bq/kg the same (in terms of fat)</pre>	Pesticides <**>:	0.05	Milk,
(alpha-, beta-, gamma-isomers) 1.25 DDT and its metabolites DDT and its metabolites 1.00 Radionuclides: Caesium - 137 Dioxins <***>: 0.000003 fermented liquid milk products, milk based drinks, cream, sour cream in terms of fat Beg/kg the same Dioxins <***>: 0.000003 fermented liquid milk products, milk based drinks, cream in terms of fat (in terms of fat)	Hexachlorocyclohe		buttermilk, milk
liquid milk products, milk based drinks, cream, sour cream in terms of fat DDT and its 0.05 Milk, buttermilk, milk whey, liquid fermented liquid milk products, milk based drinks, cream, sour cream in terms of fat 1.0 cream, sour cream in terms of fat Radionuclides: Caesium - 137 100 Bq/kg Strontium-9 0 25 the same Dioxins <***>: 0.000003 (in terms of fat)	xane		whey, liquid
products, milk based drinks, cream, sour cream in terms of fat DDT and its metabolites DDT and its metabolites 0.05 Milk, buttermilk, milk whey, liquid fermented liquid milk products, milk based drinks, cream, sour cream, sour cream in terms of fat Radionuclides: Caesium - 137 Strontium-9 0 Dioxins <***>: 0.000003 (in terms of fat)	(alpha-, beta-,		fermented
DDT and its metabolites DDT and its milk, buttermilk, milk whey, liquid fermented liquid milk products, milk based drinks, cream, sour cream in terms of fat DDT and its milk DDT	gamma-isomers)		liquid milk
1.25 cream, sour cream in terms of fat Milk, buttermilk, milk whey, liquid fermented liquid milk products, milk based drinks, cream, sour cream in terms of fat Radionuclides: Caesium - 137 100 Bq/kg Strontium-9 0 25 the same Dioxins <***>: 0.000003 (in terms of fat)			products, milk
DDT and its DDT and its metabolites 0.05 Milk, buttermilk, milk whey, liquid fermented liquid milk products, milk based drinks, cream, sour cream in terms of fat Radionuclides: Caesium - 137 100 Bq/kg Strontium-9 0 25 the same Dioxins <***>: 0.000003 (in terms of fat)			based drinks,
DDT and its metabolites 0.05 Milk, buttermilk, milk whey, liquid fermented liquid milk products, milk based drinks, cream, sour cream in terms of fat Radionuclides: Caesium - 137 100 Bq/kg Strontium-9 0 25 the same Dioxins <***>: 0.000003 (in terms of fat)		1.25	cream, sour
DDT and its metabolites 0.05 Milk, buttermilk, milk whey, liquid fermented liquid milk products, milk based drinks, cream, sour cream in terms of fat Radionuclides: Caesium - 137 Strontium-9 0 Dioxins <***>: 0.000003 (in terms of fat)			cream in terms
metabolites metabolites buttermilk, milk whey, liquid fermented liquid milk products, milk based drinks, cream, sour cream in terms of fat Radionuclides: Caesium - 137			of fat
whey, liquid fermented liquid milk products, milk based drinks, cream, sour cream in terms of fat Radionuclides: Caesium - 137	DDT and its	0.05	Milk,
fermented liquid milk products, milk based drinks, cream, sour cream in terms of fat Radionuclides: Caesium - 137	metabolites		buttermilk, milk
liquid milk products, milk based drinks, cream, sour cream in terms of fat Radionuclides: Caesium - 137			whey, liquid
products, milk based drinks, cream, sour cream in terms of fat Radionuclides: Caesium - 137			fermented
hased drinks, cream, sour cream in terms of fat Radionuclides: Caesium - 137			liquid milk
1.0 cream, sour cream in terms of fat Radionuclides: Caesium - 137 100 Bq/kg Strontium-9 0 25 the same Dioxins <***>: 0.000003 (in terms of fat)			products, milk
Radionuclides: Caesium - 137			based drinks,
Radionuclides: Caesium - 137		1.0	cream, sour
Radionuclides: Caesium - 137 100 Bq/kg Strontium-9 0 25 the same Dioxins <***>: 0.000003 (in terms of fat)			cream in terms
Caesium - 137			of fat
Strontium-9 0 25 the same Dioxins <***>: 0.000003 (in terms of fat)			
Dioxins <***>: 0.000003 (in terms of fat)	Caesium - 137	100	Bq/kg
fat)	Strontium-9 0	25	the same
fat)	Diovine <***>	0 000003	(in torms of
Melamine not allowed < 1 mg/kg	DIOXIIIS V	0.000003	,
Melamine not allowed < 1 mg/kg			,
	Melamine	not allowed	< 1 mg/kg
	l	1	1

Microbiological indicators: (as amended by Amendments and Additions No. 2, approved by Resolution

No. 41 of Chief State Sanitary Inspector of the RF dated 15.04.2003) QMAFAnM, Mass of products (g, Index, group of cm3) in which the products CFU/cm3(g), indicator is not not more than allowed Coliform Pathogeni bacteria -(coliforms) including salmonella 1.2.1.1. Raw milk: - of premium grade 3 x 1E5 25 somatic cells not more than 5 x 1E5 in 1 cm3 - of first grade 5 x 1E5 25 Somatic cells not more than 1 x 1E6 in 1 cm3 - of second grade 4 x 1E6 25 the same 1.2.1.2. Pasteurized milk, milk whey, buttermilk 1 x 1E5 0.01 25 - in a consumer S. aureus in 1 cm3 are not packaging allowed; L. monocytogenes in 25 cm3 are not allowed 25 2 x 1E5 0.01 - in cans and S. aureus in 0.1 tanks cm3 are not

				allowed; L. monocytogenes in
				25 cm3 are not
				allowed
1.2.1.3.	1 x 1E5	0.01	25	S. aureus in 1
Pasteurized cream:				cm3 are not
- in a consumer				allowed; L.
packaging				monocytogenes in
				25 cm3 are not
				allowed
- in cans	2 x 1E5	0.01	25	S. aureus in 0.1
				cm3 are not
				allowed; L.
				monocytogenes in
				25 cm3 are not
				allowed
1.2.1.4.	2.5 x 1E3	1.0	25	
Baked milk				

Shall satisfy requirements for industrial sterility

in accordance with Annex 8 to these Sanitary Rules

for sterilized milk and cream in a consumer packaging

1.2.1.5.

Sterilized milk

and raw cream

	Ta				L	h
	_	Mass of prod	-		Yeast,	Note
products		in which the	e indica	ator is	moulds, CFU/cm3(
	microorgan	not allowed	G 31170	Pathogen	1 '	
		bacteria -	us	ic,	more	
		(coliforms)	us	includin		
		(COTITOTING)		a		
				salmonel		
				la		
1	2	3	4	5	6	7
1.2.1.6.		0.01	1.0	25	1	
Liquid fermented		0.01	1.0			
milk products,						
including						
yoghurt, with						
the shelf life						
of not more than						
72 hours						
1.2.1.7.	not less	0.1	1.0	25	yeast -	<*> except
Liquid fermented	than				50 <*>	for drinks
milk products,	1 x 1E7				moulds -	produced with
including	<**>				50	the use of
yoghurt, with						starters,
the shelf life						containing
of more than 72						yeast
hours						<**> for heat
						treated
						products the
						norms are not
						established
1.2.1.8.	not less	0.1	1.0	25	yeast -	<*> except
Liquid	than 1 x				50 <*>	for drinks
Fermented milk	1E7;				moulds -	produced with
products,	bifidobact				50	the use of
enriched with	eria - not					starters,
bifidobacteria,	less than					containing
with the shelf	1 x 1E6					yeast
life of more						
than 72 hours						
1.2.1.9.	_	1.0	1.0	25	-	
Ryazhenka						
(fermented baked						
milk)						
1.2.1.10. Sour		0.001	1.0	25		<*> for heat
cream and		<*>			50 <**>	treated pro-
products on its						ducts - 0.01;
basis					50 <**>	<**> for
						products with
						the shelf li-
					1	fe of more
						than 72 hours

Index, group	Indicators	Permissible	Note
of products		levels, mg/kg, not	
		more	
1	2	3	4
1.2.2. Curds and curd products, milk		0.3	
protein paste-		0.2	
like products		0.1 0.02	
	Mycotoxins: aflatoxin M1	0.0005	
	Pesticides <**>: Hexachlorocyclo hexane (alpha-, beta-, gamma-isomers)	1.25	in terms of fat
	DDT and its - metabolites.	1.0	the same
	Antibiotics and radionuclides	according to Clause 1.2.1	
	Dioxins <***>:	according to Clause 1.2.1	

(as amended by Amendments and Additions No. 10, approved by Resolution No. 43 of Chief State Sanitary Inspector of the RF dated 16.07.2008)

Microbiological indicators:

Index, group of products	Mass of prin which the not allowed Coliform bacteria (coliforms)	indica	ator is	CFU/g, not more	Note
1.2.2.1. Curds and curd products with the shelf life of not more than 72 hours	0.001	0.1	25	-	
1.2.2.2. Curds and curd products with the shelf life of more than 72 hours, including frozen	0.01	0.1	25	yeast - 100 moulds - 50	
1.2.2.3. Heat treated curd products	0.01	1.0	25	yeast and moulds - 50	

1.2.2.4. Albumin mass from milk whey	0.1	0.1	100 moulds -	QMAFAnM - not more than 2 x 1E5 CFU/g, except for
				products produced with fermented milk microflora

Index, group	Indicators	Permissible	Note
of products		levels, mg/kg, not	
		more	
1	2	3	4
1.2.3. Canned milk (milk, cream, buttermilk,	Toxic elements:	0.3	
milk whey,	arsenic	0.15	
condensed milk	cadmium	0.1	
with sugar;	mercury	0.015	
condensed sterilized m- ilk)	stannum	200.0	for canned food in assembled tin containers
	chrome	0.5	for canned food in chromed containers
	Mycotoxins: aflatoxin M1	0.0005	
	Pesticides	according to Clause 1.2.2	
	Antibiotics	according to Clause 1.2.1	
	Radionuclides:		
	caesium - 137 strontium-90	300 100	Bq/kg the same
	Dioxins <***>:	according to Clause 1.2.1	
	Melamine	not allowed	< 1 mg/kg

Microbiological indicators:

(as amended by Amendments and Additions No. 2, approved by Resolution No. 41 of Chief State Sanitary Inspector of the RF

dated 15.04.2003) QMAFAnM, CFU/g, not Index, group of Mass of products (g) Note products in which the more than indicator is not allowed Coliform Pathogen bacteria bacteria - ic, (coliforms) includin salmonella 1.2.3.1. Shall satisfy requirements for industrial Condensed sterility for canned food of group "A" in sterilized milk accordance with Annex 8 to these Sanitary Rules in cans 1.2.3.2. Condensed milk with sugar: 2 x 1E4 1.0 25 - in a consumer packaging - in a shipping 25 packaging 1.0 5 x 1E4 1.2.3.3. 1.0 25 Condensed buttermilk, milk whey with sugar 3.5 x 1E4 1.2.3.4. Cocoa, 1.0 25 natural coffee with condensed milk and sugar, condensed cream with sugar

Index, group of products	Indicators	Permissible levels, mg/kg, not more	Note
Dry milk	,	according to Clause 1.2.1	in terms of reconstituted products
drinks, ice- cream mixtures, whey and buttermilk	Pesticides <**>: Hexachlorocyclo hexane (alpha-, beta-, gamma-isomers) DDT and its - metabolites.	1.25	in terms of fat
	Radionuclides: cesium-137 strontium-90	500 200	Bq/kg the same
	Dioxins <***>:	according to Clause 1.2.1	
	Melamine	not allowed	< 1 mg/kg

	date	e <u>d 15.04.</u>			
Index, group of	QMAFAnM,			s (g) in	Note
products	CFU/g, not	which th	ne indica	ator is	
	more than	not allo	owed		
		Colifor	S.	Pathogen	
		m	aureus	ic,	
		bacteri		includin	
		a -		g	
		(colifo		salmo-	
		rms)		nella	
1	2	3	4	5	6
_	2	3	7		0
1.2.4.1. Dry	5 x 1E4	0.1	1.0	25	
whole cow milk	0 11 121		1.0		
WHOLE COM MILL					
1.2.4.2. Dry	1				
milk					
skimmed:					
- for	5 x 1E4	0.1	1.0	25	
direct		-			
consumption					
0011001111					
		0 1	1 0	0.5	
- for	1 x 1E5	0.1	1.0	25	
industrial					
processing					
1.2.4.3.	1 x 1E5	0.01	1.0	25	moulds -
Dry milk drinks					not more
					than 50
					CFU/g
1.2.4.4. Dry	7 x 1E4	0.1	1.0	25	
cream and					
sweetened dry					
cream					
1.2.4.5.	1 x 1E5	0.1	1.0	25	yeast - not
Dry milk whey					more than
					50 CFU/q,
					moulds -
					not more
					than 100
					CFU/g
1.2.4.6. Dry	5 x 1E4	0.1	1.0	25	yeast - not
buttermilk					more than
					50 CFU/q,
					moulds -
					not more
					than 100
					CFU/g
	1		1	1	. ,

Index, group	Indicators	Permissible	Note
of products		levels, mg/kg, not	
		more	
1	2	3	4
1.2.5.	See Section "Oth	er Products", Claus	e 1.9.2
Milk protein			
concentrates,			
casein,			
caseinates,			
milk protein			
hydrolysates			T
	Toxic elements:		
, ,	lead		
hard, soft,		0.5	
	arsenic	0.3	
cheese spread)	cadmium	0.2	
	mercury	0.03	
	4	according to	
	antibiotics	Clause 1.2.1	
	Pesticides	according to	
		Clause 1.2.2	
	Radionuclides:		
	caesium - 137	50	Bq/kg
		100	the same
	Dioxins <***>:	according to	
		Clause 1.2.1	

(as amended by Amendments and Additions No. 10, approved by Resolution No. 43 of Chief State Sanitary Inspector of the RF dated 16.07.2008)

Microbiological indicators:

dated 15.04.2003)				
Index, group of products	QMAFAnM, CFU/g, not more than		the r is not Patho-genic,	Note
1	2	3	4	5
1.2.6.1. Cheeses (hard, semi-hard, brine, soft)		0.001	25	S. aureus not more than 500 CFU/g L. monocytogenes in 25 g are not allowed
1.2.6.2. Cheese spreads				
- without any filling agents	5 x 1E3	0.1	25	moulds not more than 50 CFU/g, yeast not more than 50 CFU/g
- with filling agents	1 x 1E4	0.1	25	moulds not more than 100 CFU/g, yeast not more than 100 CFU/g

Index, group of products		Permissible levels, mg/kg, not more	Note
1	2	3	4
Milk based	Toxic elements, mycotoxins, antibiotics and radionuclides	according to Clause 1.2.1	
		according to Clause 1.2.2	

Microbiological indicators:

	uate	ea 15.04.	.2003)		
Index, group of products	QMAFAnM, CFU/cm3		products which th	-	Note
	(g),	indicato	or is not	allowed	
	not more	Colifor	S.aureu	Pathogen	
	than	m	s	ic	
		bacteri		includin	
		a -		g	
		(colifo		salmonel	
		rms)		la	
1.2.7.1.	1 x 1E5	0.01	1.0	25	L.
Frozen ice-cream					monocytogen
					es in 25 g
					are not
					allowed
1.2.7.2.	1 x 1E5	0.1	1.0	25	the same
Soft ice-cream					
1.2.7.3.	3 x 1E4	0.1	1.0	25	the same
Liquid mixtures					
for soft ice					
cream		1			
1.2.7.4. Dry	5 x 1E4	0.1	1.0	25	the same
mixtures for					
soft ice cream					

Index, group of products	Indicators	Permissible levels, mg/kg, not more	Note
1.2.8. Cow butter	See Section "Oil Clause 1.7.6 Dioxins <***>:	y Raw Material and 0.000003	Fat Products",
_	43 of Chief Stat	Additions No. 10, ap ce Sanitary Inspecto	
bacterial cultures for fermented milk products production, acid cream butter and cheeses, pro- biotic products (as amended by	cadmium mercury Amendments and F 41 of Chief Stat	1.0 0.2 0.2 0.03 additions No. 2, app	_

Microbiological indicators:

(as amended by Amendments and Additions No. 2, approved by Resolution No. 41 of Chief State Sanitary Inspector of the RF dated 15.04.2003)

	date	<u>d 15.04.</u>			
Index, group of products	Quantity of lactic acid and (or) other mic-	cm3) in which the indicator is not allowed: Colifor S.Aureu Pathogen			Note
	roorganism s of starters, CFU/cm3	m bacteri a - (colifo	S	ic includin g salmonel	
	(g), not less than	rms)		la	
1	2	3	4	5	6
1.2.9.1. Symbiotic (liquid)starters for kefir	-	3.0	10.0	100	moulds not more than 5 CFU/g
1.2.9.2. Starters from pure cultures for production of fermented milk products, acid cream butter and cheese, probiotic products:					
- liquid, including frozen	1 x 1E8 <*>	10.0	10.0	100	moulds and yeast not more than 5 CFU/g; <*> for concentrate d starters - not less than 1 x 1E10
- dry	1 x 1E9 <*>	1.0	1.0	10	moulds and yeast not more than 5 CFU/g; <*> for concentrate d starters - not less than 1 x 1E10

Index, group	Indicators	Permissible	Note
of products		levels, mg/kg, not	
		more	
1	2	3	4
1.2.10.	Toxic elements:		
Dry food	lead		
solutions on		0.3	
	arsenic	1.0	
for cul-	cadmium	0.2	
tivation of	mercury	0.03	
starter and probiotic	Mycotoxins:	0.0005	
microflora	aflatoxin M1		
microriora			
	Pesticides	1.25	in terms of
	<**>:		fat
	Hexachlorocyclo		
	hexane		
	(alpha-, beta-,		
	gamma-isomers)		ļ
	DDT and its -	1.0	the same
	metabolites		
	Radionuclides:	160	Bq/kg
	caesium - 137		
	strontium-90	80	the same

(as amended by Amendments and Additions No. 2, approved by Resolution No. 41 of Chief State Sanitary Inspector of the RF dated 15.04.2003)

Microbiological indicators:

		d 15.04.2003		
Index, group of products		Mass of products (g) l in which the indicator is not allowed		Note
			g salmo- nella	
1	2	3	4	5
1.2.10.1. Dry food solutions for cultivation of starter and probiotic microflora	5 x 1E4	0.01	25	sulfite- reducing clostridia in 0.01 g are not allowed

Index, group of products	Indicators	Permissible levels, mg/kg, not more	Note	
containing products with non-milk components, including ice-	mycotoxins, antibiotics, pesticides and radionuclides	Shall be established with consideration of non-milk components content and safety requirements thereof		
cream	Microbiological indicators:	according to Clause 1.2.1 - 1.2.7		
(as amended by Amendments and Additions No. 2, approved by Resolution No. 41 of Chief State Sanitary Inspector of the RF dated 15.04.2003)				

(the note was amended by Amendments and Additions No. 22, approved by Resolution No. 177 of Chief State Sanitary Inspector of the RF dated 27.12.2010)

<*> It is also required to control residual quantities of the pesticides used for production of food raw material (see Clauses 3.12, 3.13).

Note:

- <***> the maximum level shall not be applied to products containing less than 1% of fat;
- hereinafter dioxins shall be understood to represent the sum of polychlorinated dibenzo-p-dioxins (PCDD) and polychlorinated dibenzofurans (PCDF), expressed as a sum of toxic equivalency factors (TEF) according to the WHO scale (WHO-TEFs):

<*> It is also required to control residual quantities of the antibiotics used for production of food raw material (see Clause 3.15).

TOXIC EQUIVALENCY FACTORS (according to WHO scale) <*>

Congener	TEF Value
Congener	ier value
Dibenzo-p-dioxin (PCDD)	
Dibenzo-p-dioxin (PCDD)	
2,3,7,8-Tetrachlorodibenzodioxin	1
z, s, /, o-retrachrorodibenzodroxin	
1,2,3,7,8-Pentachlorodibenzodioxin	1
1,2,3,7,6-Felicaciii010dibeli20di0xiii	<u> </u>
1,2,3,4,7,8-Hexachlorodibenzodioxin	0.1
1,2,3,4,7,0 hexaciiiolodibelizodioxili	0.1
1,2,3,4,7,8-Hexachlorodibenzodioxin	0.1
1,2,3,4,7,0 nexaciiologibenzogioxin	0.1
1,2,3,7,8,9-Hexachlorodibenzodioxin	0.1
1,2,3,4,6,7,8-Heptachlorodibenzodioxin	0.01
, , , , , , , , , , , , , , , , , , , ,	
Octachlorodibenzodioxin	0.0001
Dibenzofurans (PCDF)	
2,3,7,8-Tetrachlorodibenzofuran	0.1
1,2,3,7,8-Pentachlorodibenzofuran	0.05
2,3,4,7,8-Pentachlorodibenzofuran	0.5
1,2,3,4,7,8-Hexachlorodibenzofuran	0.1
1,2,3,6,7,8-Hexachlorodibenzofuran	0.1
1,2,3,7,8,9-Hexachlorodibenzofuran	0.1
2,3,4,6,7,8-Hexachlorodibenzofuran	0.1
1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.01
1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.01
Oktachlorodibenzofuran	0.0001

(the note was introduced by Amendments and Additions No. 10, approved by Resolution No. 43 of Chief State Sanitary Inspector of the RF dated 16.07.2008)

<*> 1 pg TEF means that this is a mixture of PCDD and PCDF which corresponds to 1 pg of 2,3,7,8-Tetrachlorodibenzodioxin (TCDD).

1.3. Fish, Shellfish and Algae and Products Based on them:

Index, group	Indicators	Permissible	Note
of products		levels, mg/kg, not	
1		more	
1	2	3	4
1.3.1. Live	Toxic elements:		
fish, chilled,	lead		
frozen raw		1.0	
fish, minced		2.0	tuna,
fish, filet,			swordfish,
meat of marine	arsenic	1.0	freshwater
mammals		5.0	sea beluga
	cadmium	0.2	
	mercury	0.3	freshwater
	2		nonpredatory
		0.6	freshwater
			predatory
		0.5	sea
		1.0	tuna,
			swordfish,
			beluga
	Histamine	100.0	tuna,
	III Camiline	100.0	mackerel,
			salmon,
			herring
	Nitrosamines:	0.003	nerring
	sum of N-	0.003	
	Nitrosodimethyl		
	amine and N-		
	Nitrosodiethyla		
	mine		
	Pesticides <*>:	0.2	sea, meat of
	Hexachlorocyclo	0.2	marine mammals
	hexane		marine mammars
	(alpha-, beta-,		
	gamma-isomers)	0.03	freshwater
	DDT and its	0.2	sea
	metabolites	0.2	Sea
	metabolites	0.3	freshwater
		2.0	
		2.0	sturgeons,
			salmons, fat herring
		0.2	meat of marine
		0.2	mammals
	2 1-D 201d	not allowed	freshwater
	2, 4-D acid, its salts and	not allowed	ITESHWALEL
	esters	2 0	
	Polychlorinated	2.0	
	biphenyls	120	D ~ / lr ~
	Radionuclides:	130	Bq/kg
	caesium - 137	100	+ la a - a - m -
	strontium-90	100	the same
	Dioxins <**>:	0.00004	
		pond fish and fish	of cage
1	culture fishery	<*>:	1
	tetracycline	0.01	
	group		
1 1 1 1	Amondmonts and	Additions No. 2, app	around ha

(as amended by Amendments and Additions No. 2, approved by Resolution No. 41 of Chief State Sanitary Inspector of the RF dated 15.04.2003, No. 10, approved by Resolution No. 43 of Chief State Sanitary Inspector of the RF dated 16.07.2008, No. 22, approved by Resolution No. 177 of Chief State Sanitary Inspector of the RF dated 27.12.2010, Amendment No. 24, approved by Resolution No. 79 of Chief State Sanitary Inspector of the RF dated 01.06.2011)

1	Microbio	logical i	indicato	rs:	I
Index, group of products	QMAFAnM, CFU/g, not more than	Mass of	product ne indic owed	Patho- genic, includin g salmonel la and L. monocyto	Note
1	0	2	4	genes	6
1.3.1.1. Raw fish and live fish	5 x 1E4	0.01	0.01	5 25	V. parahaemoly ticus - not more than 100 CFU/g, for sea fish
(as amended by Ar	mendments a	nd Addit	ions No.	2, approv	red by
Resolution No. 41 dated 15.04.2003) 1.3.1.2. Chilled, frozen fish		State Sar	nitary I	nspector o	the same
1.3.1.3. Chilled and frozen fish products: - fish fillet, fish of special cutting	1 x 1E5	0.001	0.01	25	the same; sulfite- reducing clostridia in 0.01 g are not allowed in vacuum- packaged products,
- eating minced fish, formed minced fish products, including with	1 x 1E5	0.001	0.01	25	the same
flour component - mince fish of special condition	5 x 1E4	0.01	0.1	25 <*>	sulfite- reducing clostridia in 0.01 g are not allowed in vacuum- packaged products, <*> only salmonella

Index, group of products	Indicators	Permissible levels, mg/kg, not more	Note		
1.3.2. Canned and semi-preserved fish	Toxic elements: lead, arsenic, cadmium, mercury, stannum chrome benz(a)pyrene	200 0.5 0.005 <*>	in assembled tin containers in chromed containers <*> for smoked products		
	Dioxins <**>:	according to Clause 1.3.1			
-	Amendments and Additions No. 2, approved by				

Histamine,	according to	
nitrosamines,	Clause 1.3.1	
pesticides,		
polychlorinated		
biphenyls and		
radionuclides		

	Micro	biologi	cal ind	licators	s:	
Index, group of products	QMAFAn M, CFU/g not more - than	the ind	dicator	is not Sul- fite- redu- cing	in which allowed Pathogen ic, includin g salmonel la and L. monocyto genes	Note
1	2	3	4	5	6	7
1.3.2.1. Semi-preserved food products of spiced and special salting from whole and cut fish	1 × 1E5	0.01		0.01	25	moulds - not more than 10 CFU/g, yeast - not more than 100 CFU/g
1.3.2.2. Lightly-salted semi-preserved fish products of spiced and special salting - whole - cut	1 x 1E5 5 x 1E4	0.01	1.0	0.01	25	moulds - not more
1.3.2.3. Semi-preserved	2 x 1E5	0.01	1.0	0.01	25	than 10 CFU/g, yeast - not more than 100 CFU/g the same the same

food products from cut fish with addition of			
vegetable oils,			
dressings,			
sauces, with and			
without garnish			
(including from			
salmon)			

(as amended by Amendments and Additions No. 2, approved by Resolution No. 41 of Chief State Sanitary Inspector of the RF dated 15.04.2003)						
1.3.2.4. Semi-preserved food products "Paste":	5 x	0.01	0.1	0.01	25	the same
fish pastesfrom the	1E5	0.1		0.1	25	the same
1.3.2.5. Semi-preserved food products from heat- treated fish	5 x 1E4	1.0	1.0	1.0	25	
	Shall satisfy requirements for industrial sterility for canned food of group "A" in accordance with Annex 8 to these Sanitary Rules					
1.3.2.7. Semi-canned fish products in glass containers	sterili	ty for	canned	food of	for indust f group "E ese Sanita	" in ac-

Index, group	Indicators	Permissible	Note
of products		levels, mg/kg, not more	
1	2	3	4
1.3.3.	Toxic elements,	according to	in terms of
Dried,	histamine and	Clause 1.3.1	original
cured,	polychlorinated		product -
smoked,	biphenyls		subject to
salted,			content of dry
spiced, marinated			substances in it and final
fish,			products
fish			produces
cookery and			
other fish			
products,			
ready for			
consumption			
-	41 of Chief Stat	Additions No. 2, app ce Sanitary Inspecto	-
- smoked,	Nitrosamines:	0.003	
salted,	sum of N-		
marinated and	Nitrosodimethyl		
other fish	amine and N-		
products	Nitrosodiethyla		
- dried, cured fish	mine Radionuclides:		
11511	Radionuclides:		
	caesium - 137	130	Bq/kg (except for dried and
			cured fish)
		260	Bq/kg - for
			dried and
			cured fish
	strontium-90	100	Bq/kg (except
	Seroneram 30		for dried and
			cured fish,
			for which
			norms of
			strontium-90
			are not
	1	I	established)
	71 of Chief Stat	Additions No. 18, ap te Sanitary Inspecto	
	Pesticides <*>: Hexachlorocyclo		
	· - /	0.2	
	gamma-isomers),	0 4	haltik nna
	DDT and its metabolites	0.4	balyk pro- ducts, fat
	ine capolites	2.0	herring
	Benz (a) pyrene	0.005	smoked fish
	Dioxins <**>:	according to Clause 1.3.1	
		Additions No. 10, ap te Sanitary Inspecto	
dated 16.07.200			

	Micro	biologi	cal inc	dicators	s:	
Index, group of products	QMAFAn M, CFU/g				in which allowed	Note
	not more -	Colifo rm bacter ia - (colif orms)	S. aureus	e-	Pathogen ic, includin g salmo- nella and L. monocyto genes	
1	2	3	4	5	6	7
1.3.3.1. Hot smoked fish products, including frozen	1 x 1E4	1.0	1.0	0.1	25	<*> vacuum- packaged
1.3.3.2. Cold smoked fish pro- ducts, including frozen: - whole	1 x 1E4	0.1	1.0	0.1 <*>	25	the same <*> V. parahaemol uticus - not more than 10 CFU/g, for sea fish
- cut, including sliced (in pie- ces, served)	3 x 1E4	0.1	1.0	0.1	25	the same <*> V. parahaemol uticus - not more than 10 CFU/g, for sea fish
<pre>- balyk products of cold smoking, including in slices</pre>	7.5 x 1E4	0.1	1.0	0.1	25	vacuum- packaged <*>
- fish made dish, sausage products, balyk minced meat, spiced products	1 x 1E5	0.01	1.0	0.1	25	the same <*>
(Clause 1.3.3.2 a approved by Resol of the RF dated 1	ution N	Io. 41 d				
1.3.3.3. Soft smoked, light-salted cut fish, including fillet	5 x 1E4	0.1	1.0	0.1 <*>	25	V. parahaemol uticus - not more than 10 CFU/g, for sea fish <*>, vacuum- packaged

Resolution No. 4	1 of Ch	nei Sta				
lated 15.04.2003						
1.3.3.4. Salted,		0.1	_	0.1	25	
spiced,	1E5			<*>		
marinated fish,						
including fr-						
ozen:						<*>
· whole						vacuum-
						packaged
- cut salted and		0.01	0.1	0.1	25	<*>
ight-salted,	1E5			<*>		vacuum-
including salmon						packaged
vithout						
preserving						
agents, fillet, in						
slices;						
with dressings,						
spices,						
garnish,						
oil						
, <u> </u>						
(as amended by A	mendmen	its and	Additio	ons No.	2, approx	red by
Resolution No. 4						
dated 15.04.2003		_		-	-	
.3.3.5. Cured	5 x	0.1		1.0	25 <*>	<*> only
ish	1E4					salmonella
	1					moulds -
	1					not more
						than 50
						CFU/g,
						yeast -
						not more
						than 100
and a superior of the same			7 4 4 4 4 4	l No	2	than 100 CFU/g
						than 100 CFU/g red by
esolution No. 4	1 of Ch					than 100 CFU/g red by
Resolution No. 4 lated 15.04.2003	1 of Ch	nief Sta		itary I	nspector o	than 100 CFU/g red by of the RF
Resolution No. 4 dated 15.04.2003	1 of Ch) 5 x					than 100 CFU/g red by of the RF
Resolution No. 4 dated 15.04.2003	1 of Ch	nief Sta		1.0	nspector o	than 100 CFU/g red by of the RF
Resolution No. 4 dated 15.04.2003	1 of Ch) 5 x	nief Sta		1.0	nspector o	than 100 CFU/g yed by of the RF <*> vacuum- packaged
Resolution No. 4 dated 15.04.2003	1 of Ch) 5 x	nief Sta		1.0	nspector o	than 100 CFU/g yed by of the RF <*> vacuum- packaged <**> only
Resolution No. 4 dated 15.04.2003	1 of Ch) 5 x	nief Sta		1.0	nspector o	than 100 CFU/g yed by of the RF <*> vacuum- packaged
Resolution No. 4 dated 15.04.2003	1 of Ch) 5 x	nief Sta		1.0	nspector o	than 100 CFU/g yed by of the RF <*> vacuum- packaged <**> only sal-
Resolution No. 4 dated 15.04.2003	1 of Ch) 5 x	nief Sta		1.0	nspector o	than 100 CFU/g red by of the RF <pre> <*> vacuum- packaged <**> only sal- monella;</pre>
Resolution No. 4 dated 15.04.2003	1 of Ch) 5 x	nief Sta		1.0	nspector o	than 100 CFU/g red by of the RF <pre> <*> vacuum- packaged <**> only sal- monella; moulds and yeast not more than</pre>
Resolution No. 4 dated 15.04.2003	1 of Ch) 5 x	nief Sta		1.0	nspector o	than 100 CFU/g red by of the RF <pre> <*> vacuum- packaged <**> only sal- monella; moulds and yeast not</pre>
Resolution No. 4 dated 15.04.2003 L.3.3.6. Stockfish	1 of Ch) 5 x	nief Sta		1.0 <*>	nspector o	than 100 CFU/g red by of the RF <pre> <*> vacuum- packaged <**> only sal- monella; moulds and yeast not more than</pre>
Resolution No. 4 dated 15.04.2003 1.3.3.6. Stockfish 1.3.3.7. Dried	1 of Ch) 5 x 1E4	0.1		1.0 <*>	25 <**>	than 100 CFU/g red by of the RF <pre> <*> vacuum- packaged <**> only sal- monella; moulds and yeast not more than 100 CFU/g <*> the same;</pre>
Resolution No. 4 dated 15.04.2003 1.3.3.6. Stockfish 1.3.3.7. Dried	1 of Ch) 5 x 1E4	0.1		1.0 <*>	25 <**>	than 100 CFU/g red by of the RF <pre> <*> vacuum- packaged <**> only sal- monella; moulds and yeast not more than 100 CFU/g <*> the</pre>
Resolution No. 4 dated 15.04.2003 1.3.3.6. Stockfish 1.3.3.7. Dried fish	1 of Ch) 5 x 1E4 5 x 1E4	0.1	te San.	1.0 <*>	25 <**> 25 <**>	than 100 CFU/g red by of the RF <pre> <*> vacuum- packaged <**> only sal- monella; moulds and yeast not more than 100 CFU/g <*> the same; <**> the same</pre>
Resolution No. 4 dated 15.04.20033.3.6. Stockfish3.3.7. Dried fish (as amended by An	1 of Ch) 5 x 1E4 5 x 1E4	0.1 0.1 ats and	- Addition	1.0 <*> 0.01 <*> ons No.	25 <**> 25 <**> 25 <**>	than 100 CFU/g red by of the RF <pre> <*> vacuum- packaged <**> only sal- monella; moulds and yeast not more than 100 CFU/g <*> the same; <**> the same red by</pre>
Resolution No. 4 dated 15.04.20033.3.6. Stockfish3.3.7. Dried fish (as amended by Ar Resolution No. 4	1 of Ch) 5 x 1E4 5 x 1E4 mendmen 1 of Ch	0.1 0.1 ats and	- Addition	1.0 <*> 0.01 <*> ons No.	25 <**> 25 <**> 25 <**>	than 100 CFU/g red by of the RF <pre> <*> vacuum- packaged <**> only sal- monella; moulds and yeast not more than 100 CFU/g <*> the same; <**> the same red by</pre>
Resolution No. 4 dated 15.04.20033.3.6. Stockfish (as amended by Arresolution No. 4 dated 15.04.2003	1 of Ch) 5 x 1E4 5 x 1E4 mendmen 1 of Ch	0.1 0.1 outs and hief Sta	- Addition	1.0 <*> 0.01 <*> ons No.	25 <**> 25 <**> 25 <**>	than 100 CFU/g red by of the RF <pre> <*> vacuum- packaged <**> only sal- monella; moulds and yeast not more than 100 CFU/g <*> the same; <**> the same red by of the RF</pre>
Resolution No. 4 dated 15.04.20033.3.6. Stockfish 3.3.7. Dried fish (as amended by Ar Resolution No. 4 dated 15.04.20033.3.8. Dry	1 of Ch) 5 x 1E4 5 x 1E4 mendmen 1 of Ch) 5 x	0.1 0.1 ats and	- Addition	1.0 <*> 0.01 <*> ons No.	25 <**> 25 <**> 25 <**>	than 100 CFU/g red by of the RF <pre> <*> vacuum- packaged <**> only sal- monella; moulds and yeast not more than 100 CFU/g <*> the same; <**> the same red by of the RF </pre>
Resolution No. 4 dated 15.04.2003 1.3.3.6. Stockfish 1.3.3.7. Dried Tish (as amended by Ar Resolution No. 4 dated 15.04.2003 1.3.3.8. Dry soups with fish,	1 of Ch) 5 x 1E4 5 x 1E4 mendmen 1 of Ch) 5 x	0.1 0.1 outs and hief Sta	- Addition	1.0 <*> 0.01 <*> ons No.	25 <**> 25 <**> 25 <**>	than 100 CFU/g red by of the RF <pre> <*> vacuum- packaged <**> only sal- monella; moulds and yeast not more than 100 CFU/g <*> the same; <**> the same red by of the RF </pre> <pre> <*> only sal-</pre>
Resolution No. 4 dated 15.04.2003 L.3.3.6. Stockfish (as amended by An Resolution No. 4 dated 15.04.2003 L.3.3.8. Dry soups with fish, requiring	1 of Ch) 5 x 1E4 5 x 1E4 mendmen 1 of Ch) 5 x	0.1 0.1 outs and hief Sta	- Addition	1.0 <*> 0.01 <*> ons No.	25 <**> 25 <**> 25 <**>	than 100 CFU/g red by of the RF <pre> <*> vacuum- packaged <**> only sal- monella; moulds and yeast not more than 100 CFU/g <*> the same; <**> the same red by of the RF </pre> <pre> <*> only sal- monella; monella; </pre>
Resolution No. 4 dated 15.04.2003 1.3.3.6. Stockfish 1.3.3.7. Dried fish (as amended by Ar Resolution No. 4 dated 15.04.2003 1.3.3.8. Dry soups with fish, requiring	1 of Ch) 5 x 1E4 5 x 1E4 mendmen 1 of Ch) 5 x	0.1 0.1 outs and hief Sta	- Addition	1.0 <*> 0.01 <*> ons No.	25 <**> 25 <**> 25 <**>	than 100 CFU/g red by of the RF <pre> <*> vacuum- packaged <**> only sal- monella; moulds and yeast not more than 100 CFU/g <*> the same; <**> the same red by of the RF </pre> <pre> <*> only sal- monella; moulds and </pre>
Resolution No. 4 dated 15.04.2003 1.3.3.6. Stockfish 1.3.3.7. Dried fish (as amended by Ar Resolution No. 4 dated 15.04.2003 1.3.3.8. Dry soups with fish, requiring	1 of Ch) 5 x 1E4 5 x 1E4 mendmen 1 of Ch) 5 x	0.1 0.1 outs and hief Sta	- Addition	1.0 <*> 0.01 <*> ons No.	25 <**> 25 <**> 25 <**>	than 100 CFU/g red by of the RF <pre> <*> vacuum- packaged <**> only sal- monella; moulds and yeast not more than 100 CFU/g <*> the same; <**> the same red by of the RF </pre> <pre> <*> only sal- monella; moulds and yeast not </pre>
Resolution No. 4 dated 15.04.2003 1.3.3.6. Stockfish 1.3.3.7. Dried fish (as amended by Ar Resolution No. 4 dated 15.04.2003 1.3.3.8. Dry soups with fish, requiring	1 of Ch) 5 x 1E4 5 x 1E4 mendmen 1 of Ch) 5 x	0.1 0.1 outs and hief Sta	- Addition	1.0 <*> 0.01 <*> ons No.	25 <**> 25 <**> 25 <**>	than 100 CFU/g red by of the RF <pre> <*> vacuum- packaged <**> only sal- monella; moulds and yeast not more than 100 CFU/g <*> the same; <**> the same red by of the RF </pre> <pre> <pre> </pre> <pre> <pre> </pre> <pre> <pre> <pre> </pre> <pre> </pre> <pre> <pre> <pre> </pre> <pre> <pre> <pre> </pre> <pre> /pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre>
Resolution No. 4 dated 15.04.2003 1.3.3.6. Stockfish 1.3.3.7. Dried fish (as amended by Ar Resolution No. 4 dated 15.04.2003 1.3.3.8. Dry soups with fish, requiring cooking	1 of Ch) 5 x 1E4 5 x 1E4 mendmen 1 of Ch) 5 x 1E5	0.1 0.1 ots and hief Sta	Addition to San:	0.01 <*>	25 <**> 25 <**> 25 <**> 25 <**>	than 100 CFU/g red by of the RF <pre> <*> vacuum- packaged <**> only sal- monella; moulds and yeast not more than 100 CFU/g <*> the same; <**> the same red by of the RF </pre> <pre> <*> only sal- monella; moulds and yeast not </pre>
Resolution No. 4 dated 15.04.2003 1.3.3.6. Stockfish 1.3.3.7. Dried fish (as amended by Ar Resolution No. 4 dated 15.04.2003 1.3.3.8. Dry soups with fish, requiring cooking	1 of Ch) 5 x 1E4 5 x 1E4 mendmen 1 of Ch) 5 x 1E5	0.1 0.1 outs and hief Sta	- Addition	0.01 <*> ons No. itary In	25 <**> 25 <**> 25 <**>	than 100 CFU/g red by of the RF <pre> <*> vacuum- packaged <**> only sal- monella; moulds and yeast not more than 100 CFU/g <*> the same; <**> the same red by of the RF </pre> <pre> <pre> </pre> <pre> <pre> </pre> <pre> <pre> <pre> </pre> <pre> </pre> <pre> <pre> <pre> </pre> <pre> <pre> <pre> </pre> <pre> /pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre>
(as amended by Ar Resolution No. 4 dated 15.04.2003 1.3.3.6. Stockfish 1.3.3.7. Dried fish (as amended by Ar Resolution No. 4 dated 15.04.2003 1.3.3.8. Dry soups with fish, requiring cooking 1.3.3.9. Heat-treated	1 of Ch) 5 x 1E4 5 x 1E4 1 of Ch) 5 x 1E5	0.1 0.1 ots and hief Sta	Addition to San:	0.01 <*>	25 <**> 25 <**> 25 <**> 25 <**>	than 100 CFU/g red by of the RF <pre> <*> vacuum- packaged <**> only sal- monella; moulds and yeast not more than 100 CFU/g <*> the same; <**> the same red by of the RF </pre> <pre> <pre> </pre> <pre> <pre> </pre> <pre> <pre> <pre> </pre> <pre> </pre> <pre> <pre> <pre> </pre> <pre> <pre> <pre> </pre> <pre> /pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre>
Resolution No. 4 dated 15.04.2003 1.3.3.6. Stockfish 1.3.3.7. Dried fish (as amended by Ar Resolution No. 4 dated 15.04.2003 1.3.3.8. Dry soups with fish, requiring cooking 1.3.3.9. Heat-treated culinary	1 of Ch) 5 x 1E4 5 x 1E4 mendmen 1 of Ch) 5 x 1E5	0.1 0.1 ots and hief Sta	Addition to San:	0.01 <*> ons No. itary In	25 <**> 25 <**> 25 <**> 25 <**>	than 100 CFU/g red by of the RF <pre> <*> vacuum- packaged <**> only sal- monella; moulds and yeast not more than 100 CFU/g <*> the same; <**> the same red by of the RF </pre> <pre> <pre> </pre> <pre> <pre> </pre> <pre> <pre> <pre> </pre> <pre> </pre> <pre> <pre> <pre> </pre> <pre> <pre> <pre> </pre> <pre> /pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre>
Resolution No. 4 dated 15.04.2003 1.3.3.6. Stockfish 1.3.3.7. Dried fish (as amended by Ar Resolution No. 4 dated 15.04.2003 1.3.3.8. Dry soups with fish, requiring cooking 1.3.3.9. Heat-treated culinary products:	1 of Ch) 5 x 1E4 5 x 1E4 mendmen 1 of Ch) 5 x 1E5	0.1 0.1 ots and hief Sta	Addition to San:	0.01 <*> ons No. itary In	25 <**> 25 <**> 25 <**> 25 <**>	than 100 CFU/g red by of the RF <pre> <*> vacuum- packaged <**> only sal- monella; moulds and yeast not more than 100 CFU/g <*> the same; <**> the same red by of the RF </pre> <pre> <pre> </pre> <pre> <pre> </pre> <pre> </pre> <pre> <pre> </pre> <pre> <pre> <pre> </pre> <pre> </pre> <pre> <pre> <pre> </pre> <pre> /pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre>
Resolution No. 4 dated 15.04.2003 1.3.3.6. Stockfish 1.3.3.7. Dried fish (as amended by Ar Resolution No. 4 dated 15.04.2003 1.3.3.8. Dry soups with fish, requiring cooking 1.3.3.9. Heat-treated culinary products: fish and	1 of Ch) 5 x 1E4 5 x 1E4 mendmen 1 of Ch) 5 x 1E5	0.1 0.1 ots and hief Sta	Addition to San:	0.01 <*> ons No. itary In	25 <**> 25 <**> 25 <**> 25 <**>	than 100 CFU/g red by of the RF <pre> </pre> <pre> <pre> </pre> <pre> <pre> </pre> /pre></pre>
Resolution No. 4 dated 15.04.2003 1.3.3.6. Stockfish 1.3.3.7. Dried fish (as amended by Ar Resolution No. 4 dated 15.04.2003 1.3.3.8. Dry soups with fish, requiring cooking 1.3.3.9. Heat-treated culinary products: fish and minced fish	1 of Ch) 5 x 1E4 5 x 1E4 mendmen 1 of Ch) 5 x 1E5	0.1 0.1 ots and hief Sta	Addition to San:	0.01 <*> ons No. itary In	25 <**> 25 <**> 25 <**> 25 <**>	than 100 CFU/g red by of the RF <pre> <*> vacuum- packaged <**> only sal- monella; moulds and yeast not more than 100 CFU/g <*> the same; <**> the same red by of the RF </pre> <pre> <pre> </pre> <pre> <pre> </pre> <pre> /pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre>
Resolution No. 4 dated 15.04.2003 1.3.3.6. Stockfish (as amended by Ar Resolution No. 4 dated 15.04.2003 1.3.3.8. Dry soups with fish, requiring cooking 1.3.3.9. Heat-treated culinary products: fish and	1 of Ch) 5 x 1E4 5 x 1E4 mendmen 1 of Ch) 5 x 1E5	0.1 0.1 ots and hief Sta	Addition to San:	0.01 <*> ons No. itary In	25 <**> 25 <**> 25 <**> 25 <**>	than 100 CFU/g red by of the RF <pre> </pre> <pre> <pre> </pre> <pre> <pre> </pre> /pre></pre>

baked, fried, boiled, in dressings, etc.; with flour component (pies, ravioli, etc.);						<pre><**> only salmonella; moulds and yeast not more than 100 CFU/g</pre>
including frozen - multi- component pro- ducts - solyanka, pilaf, snacks, stewed seafood with vegetables,	5 x 1E4	0.01	1.0	1.0	25 <**>	<pre><*> vacuum- packaged <**> only salmonella</pre>
<pre>including frozen - jellied products: jellied fish, fish in aspic, etc.</pre>	5 x 1E4	0.1	1.0		25 <*>	<*> only salmonella
1.3.3.10. Culinary products without heat-treatment: - salads from fish and seafood without dressing	1 x 1E4	1.0	1.0	-	25	Proteus in 0.1 g are not allowed
- chopped salted fish; pates, pastes	2 x 1E5	0.01	0.1		25	the same
- herring, caviar, krill butter, etc.	2 x 1E5	0.001	0.1		25	the same
- salads from	5 x 4	0.1	0.1		25 g	E. coli in 0.1 g are not allowed; Proteus in 0.1 g are not allowed; moulds - not more than 50 CFU/g; yeast - not more than 100 CFU/g

1.3.3.11. Cooked and frozen products: - quick-frozen ready-made dinner and snack fish meals, pancakes with fish, fish stuffing, including vacuum-packaged	2 x 1E4	0.1	0.1	0.1	25	Enterococcu s - 1 x 1E3 CFU, not more than (in sliced products) <*> vacuum- packaged
- constructed products ('crab sticks', etc.)	1 x 1E3	1.0	1.0	1.0		Enterococc us - 2 x 1E3 CFU/g, not more than (in minced fish products)
1.3.3.12. Mayonnaise on		0.01			25 <*>	<*> only sal-

the fish broth			monella;
basis			moulds not
			more than
			10 CFU/g,
			yeast not
			more than
			100 CFU/g

Index, group	Indicators	Permissible	Note
of products		levels, mg/kg, not	
		more	
1	2	3	4
1.3.4. Fish	Toxic elements:		
caviar and	lead		
milt and		1.0	
products from	arsenic	1.0	
them; caviar	cadmium	1.0	
analogues	mercury	0.2	
	Pesticides <*>:		
	Hexachlorocyclo	0.2	
	hexane		
	(alpha-, beta-,		
	gamma-isomers),		
	DDT and its -	2.0	
	metabolites		
	Polychlorinated	according to	
	biphenyls,	Clause 1.3.1	
	radionuclides		
	Antibiotics (for	pond fish and fish	of cage culture fishery) <*>:
	tetracycline	0.01	
	group		
(as amonded by	Amondmont No 2/	I approved by Pogol	ution No. 79 of Chief State

(as amended by Amendment No. 24, approved by Resolution No. 79 of Chief State Sanitary Inspector of the RF dated 01.06.2011)

Today amana af	OMA EA				ndicators		V+	Note
Index, group of products	QMAFAN M,				in which allowed	Moulas, CFU/q	Yeast, CFU/q	Note
F	CFU/g	Colifo		Sul-	Pathogen	not	not	
	not	rm	aureus			more -	more -	
	more - than	bacter ia -		redu-	includin	than	than	
	CHall	colif		cing clostr	g salmo-			
		orms)		idia	nella			
1	2	3	4	5	6	7	8	9
1.3.4.1. Chilled	5 x	0.001	0.01		25			L. monocyto-
and frozen milt	1E4							genes in 25
and roe caviar								g are not allowed;
								V.
								parahaemolyt
								icus
								- not more
								than 100 CFU/g, for
								sea fish
1.3.4.2. Salted	1 x	0.1	0.1		25			L. monocyto-
milt	1E5							genes in 25
								g are not allowed;
1.3.4.3.								allowed;
Culinary								
caviar								
products:	1	1.0	1.0		25			
heat-treatedmulti-com-	1 x 1E4	1.0	1.0	_	25	_	_	
ponent meals	2 x	0.1	0.1	_	25	_	_	L. monocyto-
without heat-	1E5							genes in 25
treatment after								g are not
mixing								allowed; Proteus in
								0.1 g are
								not allowed
1.3.4.4. Sturgeon caviar:								
geon caviar: - granular caviar	1 🕶	1.0	1.0	1.0	25	50	50	
packed in tins,	1E4			1.0				
pressed caviar								
- pasteurized	1 x	1.0	1.0	1.0	25	0.1 <*>	0.1 <*>	<*> mass
granular	1E3					<^>	<^>	(g), in w- hich the
								indicator is
								not allowed
- lightly-salted,		1.0	1.0	1.0	25	50	100	
salted roe caviar 1.3.4.5. Salted	1 E 4	1.0	1.0	1.0	25	50	300	
granular salmon	1E5	1.0	1.0	1.0	23	30	300	
caviar:								
- packed in tins,								
kegs	E	1 0	1 0	1 0	2.5	5.0	200	
- from frozen	5 x 1E4	1.0	1.0	1.0	25	50	200	
roes	1 - 1 - 1							
1.3.4.6. Caviar								
of other kinds of								
fish:	1 ++	0.1	1.0	1.0	25	50	300	<*> mass
<pre>- screened salted;</pre>	1 x 1E5	0.1	1.0	1.0	25	30	300	<pre><*> mass (g), in w-</pre>
roe								hich the
lightly-salted,								indicator is
smoked,								not allowed
cured - pasteurized	5 x	1.0	1.0	1.0	25	0.1	0.1	
pastearizea	1E3					<*>	<*>	
1.3.4.7.	1 x	0.1	1.0	0.1	25	50	50	
Caviar analogues,								
including proteir	1							

Index, group	Indicators	Permissible	Note
of products		levels, mg/kg, not	
		more	
1	2	3	4
1.3.5. Fish	Toxic elements:		
liver and its	lead	1.0	
products	cadmium	0.7	
	mercury	0.5	for canned
	stannum	200.0	food
			in assembled
			tin containers
	chrome	0.5	for canned
	CIII OMC	0.0	food in
			chromed
	D 1 1 1 1 (d)		containers
	Pesticides <*>:		
	Hexachlorocyclo	1.0	
	hexane		
	(alpha-, beta-,		
	gamma-isomers)		
	DDT and its -	3.0	
	metabolites		
	Polychlorinated	5 0	†
	biphenvls		
	Radionuclides	a a a a model manuta a	<u> </u>
	Radionuclides	according to	
		Clause 1.3.1	
		r pond fish and fish	n of cage
	culture fishery)	<*>:	
	tetracycline	0.01	
	group		
(as amonded hor		' 1, approved by Resol	lution No. 70
		tor of the RF dated	
or curer prace			01.00.2011)
	Microbiologi	ical indicators:	
1.3.5.1.	Shall satisfy re	equirements for indu	ietrial
	~~~~		
Canned food	sterility for ca		
		anned food of group	"A" in ac-
from fish			"A" in ac-
from fish liver	cordance with Ar	anned food of group	"A" in ac-
from fish liver 1.3.5.2.	cordance with Ar	anned food of group	"A" in ac-
from fish liver 1.3.5.2. Frozen fish	cordance with Ar Microbiological indicators:	anned food of group nnex 8 to these Sani	"A" in ac- itary Rules
from fish liver 1.3.5.2. Frozen fish	cordance with Ar Microbiological indicators: QMAFAnM	anned food of group	"A" in actitary Rules CFU/g, not
from fish liver 1.3.5.2. Frozen fish	Microbiological indicators: QMAFAnM Coliform	anned food of group nnex 8 to these Sani	"A" in actary Rules  CFU/g, not more than,
from fish liver 1.3.5.2. Frozen fish	cordance with Ar Microbiological indicators: QMAFAnM	anned food of group nnex 8 to these Sani	"A" in actitary Rules CFU/g, not
from fish liver 1.3.5.2. Frozen fish	Microbiological indicators: QMAFAnM Coliform	anned food of group nnex 8 to these Sani	"A" in actary Rules  CFU/g, not more than,
from fish liver 1.3.5.2. Frozen fish	cordance with Ar Microbiological indicators: QMAFAnM Coliform bacteria -	anned food of group nnex 8 to these Sani	"A" in actary Rules  CFU/g, not more than, mass of the
from fish liver 1.3.5.2. Frozen fish	cordance with Ar Microbiological indicators: QMAFAnM Coliform bacteria -	anned food of group nnex 8 to these Sani	"A" in actary Rules  CFU/g, not more than, mass of the product (g), in which the
from fish liver 1.3.5.2. Frozen fish	cordance with Ar Microbiological indicators: QMAFAnM Coliform bacteria -	anned food of group nnex 8 to these Sani	"A" in actary Rules  CFU/g, not more than, mass of the product (g), in which the indicator is
from fish liver 1.3.5.2. Frozen fish	cordance with Ar Microbiological indicators: QMAFAnM Coliform bacteria - (coliforms)	anned food of group nnex 8 to these Sani 1 x 1E5 0.001	"A" in actary Rules  CFU/g, not more than, mass of the product (g), in which the indicator is not allowed
from fish liver 1.3.5.2. Frozen fish	cordance with Ar Microbiological indicators: QMAFAnM Coliform bacteria - (coliforms)  S. aureus	nned food of group nnex 8 to these Sani 1 x 1E5 0.001	"A" in actary Rules  CFU/g, not more than, mass of the product (g), in which the indicator is not allowed the same
from fish liver 1.3.5.2. Frozen fish	cordance with Ar Microbiological indicators: QMAFANM Coliform bacteria - (coliforms)  S. aureus V.	anned food of group nnex 8 to these Sani 1 x 1E5 0.001	"A" in actary Rules  CFU/g, not more than, mass of the product (g), in which the indicator is not allowed the same CFU/g, not
from fish liver 1.3.5.2. Frozen fish	cordance with Ar Microbiological indicators: QMAFAnM Coliform bacteria - (coliforms)  S. aureus	nned food of group nnex 8 to these Sani 1 x 1E5 0.001	"A" in actary Rules  CFU/g, not more than, mass of the product (g), in which the indicator is not allowed the same
from fish liver 1.3.5.2. Frozen fish	cordance with Ar Microbiological indicators: QMAFANM Coliform bacteria - (coliforms)  S. aureus V.	nned food of group nnex 8 to these Sani 1 x 1E5 0.001	"A" in actary Rules  CFU/g, not more than, mass of the product (g), in which the indicator is not allowed the same CFU/g, not
from fish liver 1.3.5.2. Frozen fish	cordance with Ar Microbiological indicators: QMAFANM Coliform bacteria - (coliforms)  S. aureus V. parahaemolyticus	nned food of group nnex 8 to these Sani 1 x 1E5 0.001	"A" in actary Rules  CFU/g, not more than, mass of the product (g), in which the indicator is not allowed the same CFU/g, not more than, for
from fish liver 1.3.5.2. Frozen fish	cordance with Ar Microbiological indicators: QMAFAnM Coliform bacteria - (coliforms)  S. aureus V. parahaemolyticu s Pathogenic	nned food of group nnex 8 to these Sani 1 x 1E5 0.001 0.01	"A" in actary Rules  CFU/g, not more than, mass of the product (g), in which the indicator is not allowed the same CFU/g, not more than, for sea fish
from fish liver 1.3.5.2. Frozen fish	microbiological indicators: QMAFAnM Coliform bacteria - (coliforms)  S. aureus V. parahaemolyticus Pathogenic microorganisms,	nned food of group nnex 8 to these Sani 1 x 1E5 0.001 0.01	"A" in actary Rules  CFU/g, not more than, mass of the product (g), in which the indicator is not allowed the same CFU/g, not more than, for sea fish
from fish liver 1.3.5.2. Frozen fish	microbiological indicators: QMAFAnM Coliform bacteria - (coliforms)  S. aureus V. parahaemolyticus Pathogenic microorganisms, including	nned food of group nnex 8 to these Sani 1 x 1E5 0.001 0.01	"A" in actary Rules  CFU/g, not more than, mass of the product (g), in which the indicator is not allowed the same CFU/g, not more than, for sea fish
from fish liver 1.3.5.2. Frozen fish	microbiological indicators: QMAFAnM Coliform bacteria - (coliforms)  S. aureus V. parahaemolyticus Pathogenic microorganisms, including salmonella and	nned food of group nnex 8 to these Sani 1 x 1E5 0.001 0.01	"A" in actary Rules  CFU/g, not more than, mass of the product (g), in which the indicator is not allowed the same CFU/g, not more than, for sea fish
from fish liver 1.3.5.2. Frozen fish	Microbiological indicators: QMAFAnM Coliform bacteria - (coliforms)  S. aureus V. parahaemolyticus Pathogenic microorganisms, including salmonella and L. monocytoge-	nned food of group nnex 8 to these Sani 1 x 1E5 0.001 0.01	"A" in actary Rules  CFU/g, not more than, mass of the product (g), in which the indicator is not allowed the same CFU/g, not more than, for sea fish
from fish liver 1.3.5.2. Frozen fish liver, heads	Microbiological indicators: QMAFAnM Coliform bacteria - (coliforms)  S. aureus V. parahaemolyticus Pathogenic microorganisms, including salmonella and L. monocytogenes	nned food of group nnex 8 to these Sani 1 x 1E5 0.001 0.01 100	"A" in actary Rules  CFU/g, not more than, mass of the product (g), in which the indicator is not allowed the same CFU/g, not more than, for sea fish the same
from fish liver 1.3.5.2. Frozen fish liver, heads	Microbiological indicators: QMAFAnM Coliform bacteria - (coliforms)  S. aureus V. parahaemolyticus Pathogenic microorganisms, including salmonella and L. monocytoge-	nned food of group nnex 8 to these Sani 1 x 1E5 0.001 0.01 100 25	"A" in actary Rules  CFU/g, not more than, mass of the product (g), in which the indicator is not allowed the same CFU/g, not more than, for sea fish
from fish liver 1.3.5.2. Frozen fish liver, heads	Microbiological indicators: QMAFAnM Coliform bacteria - (coliforms)  S. aureus V. parahaemolyticus Pathogenic microorganisms, including salmonella and L. monocytogenes	nned food of group nnex 8 to these Sani 1 x 1E5 0.001 0.01 100	"A" in actary Rules  CFU/g, not more than, mass of the product (g), in which the indicator is not allowed the same CFU/g, not more than, for sea fish the same
from fish liver 1.3.5.2. Frozen fish liver, heads	Microbiological indicators: QMAFAnM Coliform bacteria - (coliforms)  S. aureus V. parahaemolyticus Pathogenic microorganisms, including salmonella and L. monocytogenes	nned food of group nnex 8 to these Sani 1 x 1E5 0.001 0.01 100 25	"A" in actary Rules  CFU/g, not more than, mass of the product (g), in which the indicator is not allowed the same CFU/g, not more than, for sea fish the same
Canned food from fish liver 1.3.5.2. Frozen fish liver, heads  Index, group of products	Microbiological indicators: QMAFAnM Coliform bacteria - (coliforms)  S. aureus V. parahaemolyticus Pathogenic microorganisms, including salmonella and L. monocytogenes	nned food of group nnex 8 to these Sani 1 x 1E5 0.001 0.01 100 25 Permissible levels, mg/kg, not more	"A" in actary Rules  CFU/g, not more than, mass of the product (g), in which the indicator is not allowed the same CFU/g, not more than, for sea fish the same
from fish liver 1.3.5.2. Frozen fish liver, heads  Index, group of products	Microbiological indicators: QMAFANM Coliform bacteria - (coliforms)  S. aureus V. parahaemolyticus Pathogenic microorganisms, including salmonella and L. monocytogenes Indicators	nnex 8 to these Sani  1 x 1E5 0.001  0.01 100  25  Permissible levels, mg/kg, not more 3	"A" in actary Rules  CFU/g, not more than, mass of the product (g), in which the indicator is not allowed the same CFU/g, not more than, for sea fish the same  Note
from fish liver 1.3.5.2. Frozen fish liver, heads  Index, group of products  1 1.3.6. Fish	Microbiological indicators: QMAFAnM Coliform bacteria - (coliforms)  S. aureus V. parahaemolyticus Pathogenic microorganisms, including salmonella and L. monocytogenes Indicators  2 See Section "Oil	nned food of group nnex 8 to these Sani 1 x 1E5 0.001 0.01 100 25 Permissible levels, mg/kg, not more	"A" in actary Rules  CFU/g, not more than, mass of the product (g), in which the indicator is not allowed the same CFU/g, not more than, for sea fish the same  Note
from fish liver 1.3.5.2. Frozen fish liver, heads  Index, group of products  1 1.3.6. Fish	Microbiological indicators: QMAFANM Coliform bacteria - (coliforms)  S. aureus V. parahaemolyticus Pathogenic microorganisms, including salmonella and L. monocytogenes Indicators  2 See Section "Oil Clause 1.7.8	nnex 8 to these Sani  1 x 1E5 0.001  0.01 100  25  Permissible levels, mg/kg, not more 3 Ly Raw Material and	"A" in actary Rules  CFU/g, not more than, mass of the product (g), in which the indicator is not allowed the same CFU/g, not more than, for sea fish the same  Note  4  Fat Products",
from fish liver 1.3.5.2. Frozen fish liver, heads  Index, group of products  1 1.3.6. Fish	Microbiological indicators: QMAFAnM Coliform bacteria - (coliforms)  S. aureus V. parahaemolyticus Pathogenic microorganisms, including salmonella and L. monocytogenes Indicators  2 See Section "Oil	nnex 8 to these Sani  1 x 1E5 0.001  0.01 100  25  Permissible levels, mg/kg, not more 3	"A" in actary Rules  CFU/g, not more than, mass of the product (g), in which the indicator is not allowed the same CFU/g, not more than, for sea fish the same  Note  4 Fat Products",  (in terms of
from fish liver 1.3.5.2. Frozen fish liver, heads  Index, group of products  1 1.3.6. Fish oil	Microbiological indicators: QMAFANM Coliform bacteria - (coliforms)  S. aureus V. parahaemolyticus Pathogenic microorganisms, including salmonella and L. monocytogenes Indicators  2 See Section "Oil Clause 1.7.8 Dioxins <**>:	named food of group nex 8 to these Sani 1 x 1E5 0.001 0.01 100 25 Permissible levels, mg/kg, not more 3 ly Raw Material and	"A" in actary Rules  CFU/g, not more than, mass of the product (g), in which the indicator is not allowed the same CFU/g, not more than, for sea fish the same  Note  4 Fat Products",  (in terms of fat)
from fish liver 1.3.5.2. Frozen fish liver, heads  Index, group of products  1 1.3.6. Fish oil  (as amendative)	Microbiological indicators: QMAFAnM Coliform bacteria - (coliforms)  S. aureus V. parahaemolyticus Pathogenic microorganisms, including salmonella and L. monocytogenes Indicators  2 See Section "Oil Clause 1.7.8 Dioxins <**>: ded by Amendments	nex 8 to these Sani  1 x 1E5 0.001  0.01 100  25  Permissible levels, mg/kg, not more 3 ly Raw Material and  0.000002  and Additions No.	"A" in actary Rules  CFU/g, not more than, mass of the product (g), in which the indicator is not allowed the same CFU/g, not more than, for sea fish the same  Note  4  Fat Products",  (in terms of fat) 10, approved by
from fish liver 1.3.5.2. Frozen fish liver, heads  Index, group of products  1 1.3.6. Fish oil  (as amendative)	Microbiological indicators: QMAFAnM Coliform bacteria - (coliforms)  S. aureus V. parahaemolyticus Pathogenic microorganisms, including salmonella and L. monocytogenes Indicators  2 See Section "Oil Clause 1.7.8 Dioxins <**>: ded by Amendments	named food of group nex 8 to these Sani 1 x 1E5 0.001 0.01 100 25 Permissible levels, mg/kg, not more 3 ly Raw Material and	"A" in actary Rules  CFU/g, not more than, mass of the product (g), in which the indicator is not allowed the same CFU/g, not more than, for sea fish the same  Note  4  Fat Products",  (in terms of fat) 10, approved by
from fish liver 1.3.5.2. Frozen fish liver, heads  Index, group of products  1 1.3.6. Fish oil  (as amena Resolution No.	Microbiological indicators: QMAFAnM Coliform bacteria - (coliforms)  S. aureus V. parahaemolyticus Pathogenic microorganisms, including salmonella and L. monocytogenes Indicators  2 See Section "Oil Clause 1.7.8 Dioxins <**>: ded by Amendments 43 of Chief State	nex 8 to these Sani  1 x 1E5 0.001  0.01 100  25  Permissible levels, mg/kg, not more 3 ly Raw Material and  0.000002  and Additions No.	"A" in actary Rules  CFU/g, not more than, mass of the product (g), in which the indicator is not allowed the same CFU/g, not more than, for sea fish the same  Note  4  Fat Products",  (in terms of fat) 10, approved by
from fish liver 1.3.5.2. Frozen fish liver, heads  Index, group of products  1 1.3.6. Fish oil  (as amendative)	Microbiological indicators: QMAFAnM Coliform bacteria - (coliforms)  S. aureus V. parahaemolyticus Pathogenic microorganisms, including salmonella and L. monocytogenes Indicators  2 See Section "Oil Clause 1.7.8 Dioxins <**>: ded by Amendments 43 of Chief State	nex 8 to these Sani  1 x 1E5 0.001  0.01 100  25  Permissible levels, mg/kg, not more 3 ly Raw Material and  0.000002  and Additions No.	"A" in actary Rules  CFU/g, not more than, mass of the product (g), in which the indicator is not allowed the same CFU/g, not more than, for sea fish the same  Note  4  Fat Products",  (in terms of fat) 10, approved by
from fish liver 1.3.5.2. Frozen fish liver, heads  Index, group of products  1 1.3.6. Fish oil  (as amendated 16.07.20 1.3.7. Non-	Microbiological indicators: QMAFAnM Coliform bacteria - (coliforms)  S. aureus V. parahaemolyticus Pathogenic microorganisms, including salmonella and L. monocytogenes Indicators  2 See Section "Oil Clause 1.7.8 Dioxins <**>: ded by Amendments 43 of Chief State	nex 8 to these Sani  1 x 1E5 0.001  0.01 100  25  Permissible levels, mg/kg, not more 3 ly Raw Material and  0.000002  and Additions No.	"A" in actary Rules  CFU/g, not more than, mass of the product (g), in which the indicator is not allowed the same CFU/g, not more than, for sea fish the same  Note  4  Fat Products",  (in terms of fat) 10, approved by
from fish liver 1.3.5.2. Frozen fish liver, heads  Index, group of products  1 1.3.6. Fish oil  (as amendated) (as amendated) (as add 16.07.20	Microbiological indicators: QMAFAnM Coliform bacteria - (coliforms)  S. aureus V. parahaemolyticus Pathogenic microorganisms, including salmonella and L. monocytogenes Indicators  2 See Section "Oil Clause 1.7.8 Dioxins <**>: ded by Amendments 43 of Chief State	nex 8 to these Sani  1 x 1E5 0.001  0.01 100  25  Permissible levels, mg/kg, not more 3 ly Raw Material and  0.000002  and Additions No.	"A" in actary Rules  CFU/g, not more than, mass of the product (g), in which the indicator is not allowed the same CFU/g, not more than, for sea fish the same  Note  4  Fat Products",  (in terms of fat) 10, approved by

	ı	1	
crustaceans			
and other			
invertebrates;			
algae and sea			
grass) and			
their derived			
products,			
amphibians,			
reptiles:			
- molluscs,	Toxic elements:		
crustaceans	lead		
and other in-		10.0	
vertebrates,	arsenic	5.0	
amphibians,	cadmium	2.0	
reptiles	mercury	0.2	
	Phycotoxins:		
	paralytic toxin	0.8	molluscs
	of molluscs		
	(saxitoxin)		
	amnesic toxin	20	molluscs
	of molluscs		
	(domoic acid)		
	amnesic toxin	30	internal
	of molluscs		organs of
	(domoic acid)		crabs
	diarrheal toxin	0 16	molluscs
	of molluscs	0.10	morrases
	(okadaic acid)		
- algae and	Toxic	0.5 5.0 1.0 0.1	
sea grass	elements	0.5 5.0 1.0 0.1	
sea grass	lead		
	arsenic		
	cadmium		
	mercury		
		pond fish and fish	of cage
	culture fishery)		
	tetracycline	0.01	
1.	group	1	
I(as amended by	Amendments and A	Additions No. 2. apr	roved by

(as amended by Amendments and Additions No. 2, approved by Resolution No. 41 of Chief State Sanitary Inspector of the RF dated 15.04.2003, No. 10, approved by Resolution No. 43 of Chief State Sanitary Inspector of the RF dated 16.07.2008, No. 18, approved by Resolution No. 71 of Chief State Sanitary Inspector of the RF dated 28.06.2010, No. 22, approved by Resolution No. 177 of Chief State Sanitary Inspector of the RF dated 27.12.2010, Amendment No. 24, approved by Resolution No. 79 of Chief State Sanitary Inspector of the RF dated 01.06.2011)

	Micro	biologi	cal ind	licators	s:	
Index, group of products	QMAFAn M, CFU/g					Note
	not	Colifo rm bacter ia - (colif orms)	aureus	redu- cing	Pathogen ic, includin g salmo- nella and L. monocyto genes	
1	2	3	4	5	6	7
1.3.7.1. Non-f- ish products - crustaceans and other invertebrates (squid and gastropod molluscs, echinoderm and etc.):						
- live	5 x 1E4	0.01	0.01		25	V. parahaemol uticus - not more than 100 CFU/g, for sea

#### ConsultantPlus: note:

The indicator QMAFAnM for the following group of products is specified in accordance with the official text of the document, received from the Ministry of Justice of the RF. In the text of Resolution No. 41 of Chief State Sanitary Inspector of the RF dated 15.04.2003, published in "Rossiyskaya Gazeta" No. 119/1 dated 20.06.2003, the specified indicator equals to 1 x 1E3.

- chilled, frozen	1 x 1E5	0.001	0.01	<b> -</b>	25	the same			
Non-fish products - clams (mussels, oysters, scallop, etc.):									
- live	5 x 1E3	1.0		0.1		E. coli in 1.0 g are not allowed, Enterococcus in 0.1 g are not allowed V. parahaemoluticus - in 25 g are not allowed, for sea			
- chilled, frozen	1E4		0.1			V. parahaemoluticus - not more than 100 CFU/g, for sea			
	(as amended by Amendments and Additions No. 2, approved by Resolution No. 41 of Chief State Sanitary Inspector of the RF dated 15.04.2003)								
1.3.7.2.					25 <*>	<pre>&lt;*&gt; only sal- monella; moulds - not more than 10 CFU/g, yeast -</pre>			

addition of					_	not more than
vegetable oils,						100 CFU/g
dressings,						
sauces with and						
without garnish	<u> </u>	<u> </u>	<u></u>			
1.3.7.3.	5 x	0.1	0.1		25 <*>	<*> only sal-
Semi-preserved	1E4					monella;
food from meat						moulds - not
of clams						more than 10
						CFU/g, yeast -
						not more than
	<u></u>	<u></u>	<u> </u>		<u></u>	100 CFU/g
1.3.7.4.						rial sterility
Canned food from	for car	nned foo	od of gr	oup "A"		dance with Annex
invertebrates			nitary R			
and algae						
1.3.7.5. Cured	2 x	1.0		0.1	25 <*>	<*> only sal-
and dried	1E4					monella;
products from						moulds and yeast
marine						not more than
invertebrates	<b></b>	<b></b>	<b></b>		<u></u>	100 CFU/g
1.3.7.6.	1					1
Cooked and						
frozen products						
from						
invertebrates				1		
and algae:		0 1	0 -	1 1	0.5	a de la
- crustaceans	2 x	0.1	0.1	1.0	25	<*> vacuum-
	1E4			<*>		packaged;
				1		Enterococcus,
						CFU/g, not more
						than:
						1 x 1E3
						- in sliced
						products,
						2 x 1E3
						- in minced meat
		0 1	1 ^	1 2	0.5	products
- meat	2 x	0.1	1.0	1.0	25	<*> vacuum-
of molluscs,	1E4			<*>		packaged;
meals from meat						Enterococcus,
of clams				1		CFU/g, not more
						than:
£		0 1	1 0	1 ^	2.5	1 - 150
- from the meat	2 x	0.1	1.0	1.0	25	1 x 1E3
of shrimps,	1E4			<*>		- in sliced
crabs, krill						products,
						2 x 1E3
						- in forced meat
						products
						<*> the same;
						Enterococcus,
				1		CFU/g, not more
						than:
						1 x 1E3
						- in sliced
						products,
						2 x 1E3
						- in minced meat
1 0 7 -	1	1	<del>                                     </del>			products
1.3.7.7.						]
Dried and						]
protein						]
invertebrates						]
and algae:	_	0 1		0 0 0	0.5	l ada =
- dry mussel	5 x	0.1	[-	0.01	25 <*>	<*> only sal-
broth,	1E4					monella
bouillon cubes						]
and pastes,						]
isolated protein		L	L			]
2 2	_	1.0	1.0	-	25 <*>	<*> the same
from mussels	1E3					
1/m1100010	1	1			1	1
(mussels	•					

hydrolyzer K) - protein and carbohydrate concentrate from mussels		1.0	1.0	1.0	25 <*>	<*> the same	
1.3.7.8. Algae, sea grass and their products:							
<ul><li>algae and sea grass</li><li>raw fish, including frozen</li></ul>	5 x 1E4	0.1			25 <*>	<*> the same	
- dried algae and sea grass	5 x 1E4	1.0				<pre>&lt;*&gt; only sal- monella; moulds not more than 100 CFU/g</pre>	
- jams from 5 x 1.0 - 25 <*> <*> only sallaminaria 1E3 monella (as amended by Amendments and Additions No. 2, approved by Resolution							
No. 41 of Chief State Sanitary Inspector of the RF dated 15.04.2003)  - alimentary agar, agaroid, furcellarine and food sodium alginate							

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(the note was amended by Amendments and Additions No. 22, approved by Resolution No. 177 of Chief State Sanitary Inspector of the RF dated 27.12.2010)

#### Note:

- <***> the maximum level shall not be applied to products containing less than 1% of fat;
- hereinafter dioxins shall be understood to represent the sum of polychlorinated dibenzo-p-dioxins (PCDD) and polychlorinated dibenzofurans (PCDF), expressed as a sum of toxic equivalency factors (TEF) according to the WHO scale (WHO-TEFs):

<*> It is also required to control residual quantities of the pesticides and antibiotics used for production of food raw material (see Clauses 3.12, 3.13, 3.15).

## TOXIC EQUIVALENCY FACTORS (according to WHO scale) <*>

Congener	TEF value
50.190.101	122 Varao
Dibenzo-p-dioxin (PCDD)	
, , ,	
2,3,7,8-Tetrachlorodibenzodioxin	1
1,2,3,7,8-Pentachlorodibenzodioxin	1
1,2,3,4,7,8-Hexachlorodibenzodioxin	0.1
1,2,3,4,7,8-Hexachlorodibenzodioxin	0.1
1,2,3,7,8,9-Hexachlorodibenzodioxin	0.1
1 0 2 4 6 7 0 Hantachlandihan dibanin	0.01
1,2,3,4,6,7,8-Heptachlorodibenzodioxin	0.01
Octachlorodibenzodioxin	0.0001
occuentoroursenzouroxin	0.0001
Dibenzofurans (PCDF)	
2,3,7,8-Tetrachlorodibenzofuran	0.1
1,2,3,7,8-Pentachlorodibenzofuran	0.05
2,3,4,7,8-Pentachlorodibenzofuran	0.5
1,2,3,4,7,8-Hexachlorodibenzofuran	0.1
1 0 0 6 7 0 7	0.1
1,2,3,6,7,8-Hexachlorodibenzofuran	0.1
1,2,3,7,8,9-Hexachlorodibenzofuran	0.1
1,2,3,7,0,9 hexachiologipenzolulan	0.1
2,3,4,6,7,8-Hexachlorodibenzofuran	0.1
1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.01
*	
1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.01
Oktachlorodibenzofuran	0.0001

(the note was introduced by Amendments and Additions No. 10, approved by Resolution No. 43 of Chief State Sanitary Inspector of the RF dated 16.07.2008)

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<*> 1 pg TEF means that this is a mixture of PCDD and PCDF which corresponds to 1 pg of 2,3,7,8-Tetrachlorodibenzodioxin (TCDD).

### 1.4. Grain (Seeds), Flour-Cereal and Bakery Products.

Index, group of	Indicators	Permissible levels,	Note
products		mg/kg, not more	
1	2	3	4
1.4.1.	Toxic elements:		
Food grain	lead		
including wheat,		0.5	
rye, triticale,	arsenic	0.2	
oat, barley,	cadmium	0.1	
millet,	mercury	0.03	
buckwheat, rice,	Mycotoxins:	0.005	
maize,	aflatoxin B1		
sorghum	desoxynivalenol	0.7	wheat
		1.0	barley
	T-2 toxin	0.1	
	zearalenone	1.0	wheat, barley,
			maize
	Nitrosamines: sum	0.015	brewer's malt
	of N-		
	Nitrosodimethylam		
	ine and N-		
	Nitrosodiethylami		
	ne		
	Benz (a) pyrene	0.001	
	Pesticides <*>:	0.5	
	Hexachlorocyclohe		
	xane		
	(alpha-, beta-,		
	gamma-isomers),		
	DDT and its	0.02	
	metabolites		
	hexachlorobenzene	0.01	wheat
	mercuric organic	not allowed	
	pesticides 2, 4-D		
	acid, its salts		
	and esters		
	Radionuclides:	60	Bq/kg
	caesium - 137		1, -9

Harmful	0.05	
contaminants:		
ergot		
Russian	0.1	rye, wheat
knapweed,		
Sophora		
alopecuroides,		
Thermopsis		
lanceolata (on an		
aggregate basis)		
crown vetch	0.1	rye, wheat
heliotropium	0.1	rye, wheat
dasycarpum		
trichodesma	not allowed	rye
incanum		
golovnenye	10.0	wheat
(maranye,		
sineguzochnye)		
grain		
fusarium		
grain	1.0	rye, wheat, barley
grain with pink	3.0	rye
colouring		
presence of grain	0.1	maize
with bright		
yellow-green		
fluorescence		
(YGF)		
Pest infestation	not allowed	

	of arain	1	T
	of grain (insects, mites)		
	Pest contamination of	15.0	total contamination density, spc/kg,
	grain (insects, mites)		not more
	ochratoxin A	0.005	wheat, barley, rye, oat, rice
1 of Chief Stat	te Sanitary Inspect Dlution No. 43 of C	tions No. 2, approve or of the RF dated 1 hief State Sanitary	d by Resolution No. 5.04.2003, No. 10,
.4.2.	Toxic elements:		
eeds of grain	lead	0.5	
egumes,	arsenic	0.3	
ncluding pea, ean, golden	cadmium mercury	0.1	
ram, chipa,	Mycotoxins:	0.005	
entil, chickpea		0.000	
	Hexachlorocyclohe	0.5	
	<pre>xane (alpha-, beta-,</pre>		
	gamma-isomers) DDT and its	0.05	
	metabolites Organomercuric pesticides	not allowed	
	2, 4-D acid, its salts and esters	not allowed	
	Harmful contaminants:		
	Pest contamination and	not allowed	
	contamination and		
	infestation of grain (insects.		
	grain (insects, mites)		
	grain (insects, mites) Amendments and Addi	tions No. 18, approv	
1 of Chief Stat	grain (insects, mites) Amendments and Addi	tions No. 18, approv or of the RF dated 2	
1 of Chief Stat	grain (insects, mites) Amendments and Addi te Sanitary Inspect		
1 of Chief Stat .4.3. ereal,	grain (insects, mites) Amendments and Addite Sanitary Inspect Toxic elements:		
<pre>1 of Chief Stat .4.3. ereal, atmeal,</pre>	grain (insects, mites) Amendments and Addite Sanitary Inspect Toxic elements:	or of the RF dated 2	
<pre>1 of Chief Stat .4.3. ereal, atmeal,</pre>	grain (insects, mites) Amendments and Addite Sanitary Inspect Toxic elements: lead arsenic cadmium	0.5 0.2 0.1	
<pre>1 of Chief Stat .4.3. ereal, atmeal,</pre>	grain (insects, mites) Amendments and Addite Sanitary Inspect Toxic elements: lead arsenic cadmium mercury	or of the RF dated 2 0.5 0.2 0.1 0.03	
<pre>1 of Chief Stat .4.3. ereal, atmeal,</pre>	grain (insects, mites) Amendments and Addite Sanitary Inspect Toxic elements: lead arsenic cadmium mercury Mycotoxins:	0.5 0.2 0.1	
1 of Chief Stat .4.3. Gereal, atmeal,	grain (insects, mites) Amendments and Addite Sanitary Inspect Toxic elements: lead arsenic cadmium mercury Mycotoxins: Aflatoxin B1	or of the RF dated 2 0.5 0.2 0.1 0.03	8.06.2010)
<pre>1 of Chief Stat .4.3. ereal, atmeal,</pre>	grain (insects, mites) Amendments and Addite Sanitary Inspect Toxic elements: lead arsenic cadmium mercury Mycotoxins:	or of the RF dated 2  0.5 0.2 0.1 0.03 0.005	8.06.2010) wheat
1 of Chief Stat .4.3. Gereal, atmeal,	grain (insects, mites) Amendments and Addite Sanitary Inspect Toxic elements: lead arsenic cadmium mercury Mycotoxins: Aflatoxin B1	or of the RF dated 2 0.5 0.2 0.1 0.03	8.06.2010)
1 of Chief Stat .4.3. Gereal, atmeal,	grain (insects, mites) Amendments and Addite Sanitary Inspect Toxic elements: lead arsenic cadmium mercury Mycotoxins: Aflatoxin B1 Desoxynivalenol	or of the RF dated 2  0.5 0.2 0.1 0.03 0.005	8.06.2010) wheat
<pre>1 of Chief Stat .4.3. ereal, atmeal,</pre>	grain (insects, mites) Amendments and Addite Sanitary Inspect Toxic elements: lead arsenic cadmium mercury Mycotoxins: Aflatoxin B1 Desoxynivalenol T-2 toxin	or of the RF dated 2  0.5 0.2 0.1 0.03 0.005 0.7 1.0 0.1	wheat barley wheat, maize,
<pre>1 of Chief Stat .4.3. ereal, atmeal,</pre>	grain (insects, mites) Amendments and Addite Sanitary Inspect Toxic elements: lead arsenic cadmium mercury Mycotoxins: Aflatoxin B1 Desoxynivalenol T-2 toxin Zearalenone	or of the RF dated 2  0.5 0.2 0.1 0.03 0.005 0.7 1.0 0.1 0.2	wheat barley wheat,
1 of Chief Stat .4.3. Gereal, atmeal,	grain (insects, mites) Amendments and Addite Sanitary Inspect Toxic elements: lead arsenic cadmium mercury Mycotoxins: Aflatoxin B1 Desoxynivalenol T-2 toxin	or of the RF dated 2  0.5 0.2 0.1 0.03 0.005 0.7 1.0 0.1 0.2 according to Clause	wheat barley wheat, maize,
1 of Chief Stat .4.3. Gereal, atmeal,	grain (insects, mites) Amendments and Addite Sanitary Inspect Toxic elements: lead arsenic cadmium mercury Mycotoxins: Aflatoxin B1 Desoxynivalenol T-2 toxin Zearalenone Pesticides:	or of the RF dated 2  0.5 0.2 0.1 0.03 0.005 0.7 1.0 0.1 0.2  according to Clause 1.4.1	wheat barley wheat, maize, barley
1 of Chief State.4.3. Gereal, eatmeal, flakes	grain (insects, mites) Amendments and Addite Sanitary Inspect Toxic elements: lead arsenic cadmium mercury Mycotoxins: Aflatoxin B1 Desoxynivalenol T-2 toxin Zearalenone  Pesticides: Radionuclides: caesium - 137	or of the RF dated 2  0.5 0.2 0.1 0.03 0.005 0.7 1.0 0.1 0.2  according to Clause 1.4.1	wheat barley wheat, maize, barley  Bq/kg
1 of Chief State .4.3. ereal, atmeal, lakes  as amended by A	grain (insects, mites) Amendments and Addite Sanitary Inspect Toxic elements: lead arsenic cadmium mercury Mycotoxins: Aflatoxin B1 Desoxynivalenol T-2 toxin Zearalenone  Pesticides: Radionuclides: caesium - 137 Amendments and Addi	or of the RF dated 2  0.5 0.2 0.1 0.03 0.005 0.7 1.0 0.1 0.2  according to Clause 1.4.1 60 tions No. 18, approv	wheat barley wheat, maize, barley  Bq/kg ed by Resolution No.
1 of Chief State .4.3. Gereal, atmeal, lakes as amended by A	grain (insects, mites) Amendments and Addite Sanitary Inspect Toxic elements: lead arsenic cadmium mercury Mycotoxins: Aflatoxin B1 Desoxynivalenol T-2 toxin Zearalenone  Pesticides: Radionuclides: caesium - 137 Amendments and Addi	or of the RF dated 2  0.5 0.2 0.1 0.03 0.005 0.7 1.0 0.1 0.2  according to Clause 1.4.1	wheat barley wheat, maize, barley  Bq/kg ed by Resolution No.
Cereal, catmeal, flakes	grain (insects, mites) Amendments and Addite Sanitary Inspect Toxic elements: lead  arsenic cadmium mercury Mycotoxins: Aflatoxin B1 Desoxynivalenol T-2 toxin Zearalenone  Pesticides: Radionuclides: caesium - 137 Amendments and Addite Sanitary Inspect	or of the RF dated 2  0.5 0.2 0.1 0.03 0.005 0.7 1.0 0.1 0.2  according to Clause 1.4.1 60  tions No. 18, approv or of the RF dated 2	wheat barley wheat, maize, barley  Bq/kg ed by Resolution No.
1 of Chief State 1.4.3. Gereal, satmeal, stakes	grain (insects, mites) Amendments and Addite Sanitary Inspect Toxic elements: lead  arsenic cadmium mercury Mycotoxins: Aflatoxin B1 Desoxynivalenol T-2 toxin Zearalenone  Pesticides: Radionuclides: caesium - 137 Amendments and Addite Sanitary Inspect Harmful contaminants:	or of the RF dated 2  0.5 0.2 0.1 0.03 0.005 0.7 1.0 0.1 0.2  according to Clause 1.4.1 60 tions No. 18, approv or of the RF dated 2 hot allowed	wheat barley wheat, maize, barley  Bq/kg ed by Resolution No.
1 of Chief State .4.3. ereal, atmeal, lakes  as amended by A	grain (insects, mites) Amendments and Addite Sanitary Inspect Toxic elements: lead  arsenic cadmium mercury Mycotoxins: Aflatoxin B1 Desoxynivalenol T-2 toxin Zearalenone  Pesticides: Radionuclides: caesium - 137 Amendments and Addite Sanitary Inspect Harmful contaminants: Pest	or of the RF dated 2  0.5 0.2 0.1 0.03 0.005 0.7 1.0 0.1 0.2  according to Clause 1.4.1 60 tions No. 18, approv or of the RF dated 2 hot allowed	wheat barley wheat, maize, barley  Bq/kg ed by Resolution No.
1 of Chief State .4.3. ereal, atmeal, lakes  as amended by A	grain (insects, mites) Amendments and Addite Sanitary Inspect Toxic elements: lead  arsenic cadmium mercury Mycotoxins: Aflatoxin B1 Desoxynivalenol T-2 toxin Zearalenone  Pesticides: Radionuclides: caesium - 137 Amendments and Addite Sanitary Inspect Harmful contaminants: Pest contamination and	or of the RF dated 2  0.5 0.2 0.1 0.03 0.005 0.7 1.0 0.1 0.2  according to Clause 1.4.1 60 tions No. 18, approv or of the RF dated 2 hot allowed	wheat barley wheat, maize, barley  Bq/kg ed by Resolution No.
11 of Chief State 1.4.3. Cereal, catmeal, flakes	grain (insects, mites) Amendments and Addite Sanitary Inspect Toxic elements: lead  arsenic cadmium mercury Mycotoxins: Aflatoxin B1 Desoxynivalenol T-2 toxin Zearalenone  Pesticides: Radionuclides: caesium - 137 Amendments and Addite Sanitary Inspect Harmful contaminants: Pest contamination and infestation of	or of the RF dated 2  0.5 0.2 0.1 0.03 0.005 0.7 1.0 0.1 0.2  according to Clause 1.4.1 60 tions No. 18, approv or of the RF dated 2 hot allowed	wheat barley wheat, maize, barley  Bq/kg ed by Resolution No.
71 of Chief Stat 1.4.3. Cereal, catmeal, flakes  (as amended by A	grain (insects, mites) Amendments and Addite Sanitary Inspect Toxic elements: lead  arsenic cadmium mercury Mycotoxins: Aflatoxin B1 Desoxynivalenol T-2 toxin Zearalenone  Pesticides: Radionuclides: caesium - 137 Amendments and Addite Sanitary Inspect Harmful contaminants: Pest contamination and infestation of grain (insects,	or of the RF dated 2  0.5 0.2 0.1 0.03 0.005 0.7 1.0 0.1 0.2  according to Clause 1.4.1 60 tions No. 18, approv or of the RF dated 2 hot allowed	wheat barley wheat, maize, barley  Bq/kg ed by Resolution No. 8.06.2010)
11 of Chief State 1.4.3. Cereal, catmeal, flakes	grain (insects, mites) Amendments and Addite Sanitary Inspect Toxic elements: lead  arsenic cadmium mercury Mycotoxins: Aflatoxin B1 Desoxynivalenol T-2 toxin Zearalenone  Pesticides: Radionuclides: caesium - 137 Amendments and Addite Sanitary Inspect Harmful contaminants: Pest contamination and infestation of grain (insects, mites)	or of the RF dated 2  0.5 0.2 0.1 0.03 0.005 0.7 1.0 0.1 0.2  according to Clause 1.4.1 60 tions No. 18, approv or of the RF dated 2 hot allowed	wheat barley wheat, maize, barley  Bq/kg ed by Resolution No. 8.06.2010)  wheat, barley
1 of Chief State 1.4.3. Gereal, satmeal, stakes	grain (insects, mites) Amendments and Addite Sanitary Inspect Toxic elements: lead  arsenic cadmium mercury Mycotoxins: Aflatoxin B1 Desoxynivalenol T-2 toxin Zearalenone  Pesticides: Radionuclides: caesium - 137 Amendments and Addite Sanitary Inspect Harmful contaminants: Pest contamination and infestation of grain (insects, mites)	or of the RF dated 2  0.5 0.2 0.1 0.03 0.005 0.7 1.0 0.1 0.2  according to Clause 1.4.1 60 tions No. 18, approv or of the RF dated 2 hot allowed	wheat barley wheat, maize, barley  Bq/kg ed by Resolution No. 8.06.2010)  wheat, barley yrye,
1 of Chief State 1.4.3. Gereal, satmeal, stakes	grain (insects, mites) Amendments and Addite Sanitary Inspect Toxic elements: lead  arsenic cadmium mercury Mycotoxins: Aflatoxin B1 Desoxynivalenol T-2 toxin Zearalenone  Pesticides: Radionuclides: caesium - 137 Amendments and Addite Sanitary Inspect Harmful contaminants: Pest contamination and infestation of grain (insects, mites)	or of the RF dated 2  0.5 0.2 0.1 0.03 0.005 0.7 1.0 0.1 0.2  according to Clause 1.4.1 60 tions No. 18, approv or of the RF dated 2 hot allowed	wheat barley wheat, maize, barley  Bq/kg ed by Resolution No. 8.06.2010)  wheat, barley

Microbiological indicators:							
Index, group of products	CFU/g not more - than		products ne indicato owed	Moulds, CFU/g not	Notes		
		m bacteri	including salmo-	R CATAII	more - than		
1	2	3	4	5	6	7	
1.4.3.1. Cereal not requiring cooking (food concentrate of heat dehydration)	5 x 1E3	0.01	25	0.1	50		
1.4.3.2. Cereal sticks of all types (food concentrate of extrusion technology)	1 x 1E4	1.0	25	0.1	50		

Index, group of	Indicators	Permissible levels,	Note
products		mg/kg, not more	
1	2	3	4
1.4.4.	Toxic elements:		
Wheatflour,	lead	0.5	
including for	arsenic	0.2	
pasta, rye,	cadmium	0.1	
triticale,	mercury	0.03	
maize, barley,	Mycotoxins:		
millet	aflatoxin B1	0.005	
(panicum), rice,	Desoxynivalenol	0.7	wheat
buckwheat,	1	1.0	barley
sorgum flour	T-2 toxin	0.1	1
,	zearalenone	0.2	wheat,
			maize,
			barlev
	Pesticides <*>:		
	Hexachlorocyclohe	0.5	
	xane		
	(alpha-, beta-,		
	gamma-isomers),		
	DDT and its	0.02	from grain
	metabolites	0.05	from grain
	me casorrees	0.00	legumes
	hexachlorobenzene	0 01	wheat
	organomercuric	0.01	wiicac
		not allowed	
	2, 4-D acid, its		
	salts and esters	noc arrowed	
	Radionuclides:	60	Bq/kg
	caesium - 137		54/ 1/3
	mendments and Addi	tions No. 18, approve pector of the RF date not allowed	
	<pre>contamination and infestation of grain (insects, mites)</pre>		

	infestation by the causative agent of "potato disease" of grain	not allowed	for wheatflour, used for bread making of wheat types; after 36 hours after test laboratory baking
	ochratoxin A	0.005	wheat, barley rye, oat, rice
No. 41 of Chie	ef State Sanitary Ins by Resolution No. 43	tions No. 2, approved spector of the RF date of Chief State Sanita	ed 15.04.2003, No.
1.4.5. Pasta	Toxic elements: lead	0.5	
	arsenic cadmium mercury	0.2 0.1 0.02	
	Mycotoxins, pesticides	according to Clause 1.4.4	
	Radionuclides: caesium - 137	60	Bq/kg
	Strontium-90	30	the same

	Micr	obiologi	cal ind	icators:		
Index, group of products	1'	Mass of which th not allo	ne indic	Yeast and mo- ulds	Notes	
	more - than	Colifor m bacteri a - (colifo rms)	S. aureus	Pathogeni c, including salmo- nella	amo-	
1	2	3	4	5	6	7
1.4.5.1. Pasta containing eggs	_	_	_	25	_	
1.4.5.2. Instant noodles with milk based additives (with dry skimmed milk, dry whole cow milk, with curds)	5 x 1E4	0.01	0.1	25		
1.4.5.3. Instant noodles with plant based additives (with food boltings, with wheat germ flakes, with dry vegetable powder, with laminaria)	5 x 1E4			25	100	
1.4.5.4. Protein-free pasta	1 x 1E5	0.01		25	200 <*>	<*> Yeast, 100 CFU/g not more than

Index, group of products		Permissible levels, mg/kg, not more	Note
1	2	3	4
1.4.6. Food boltings (wheat, rye)	See Section "Other	Products", Clause 1.	9.4.
and fancy bakery products	arsenic cadmium	0.35 0.15 0.07 0.015	
		according to Clause 1.1.4	
	Radionuclides: caesium - 137	40	Bq/kg
	strontium-90	20	the same

	Micr	obiologi	cal i	ndicat	ors:		
Index, group of products	, CFU/g not more -	Mass of which the not allo Colifor m bacteri a (colifor rms)	ne ind owed S. aureu	Bacte ria of the genus		than	Notes
1	2	3	4	5	6	7	8
1.4.7.1. Bakery products (including pies, pancakes) with fruit and vegetable stuffings (as amended by Amer		1.0	1.0	No. 2,	25 , appro	_	Resolution
No. 41 of Chief Sta	ate Sanit	tary Ins	pector	of the	he RF d	ated 15.	04.2003)
1.4.7.2. Bakery products with curds, cheese: khachapuri, pancakes (including frozen), etc.	1 x 1E3		1.0	0.1	25	50	
1.4.7.3. Bakery products with scalded cream	5 x 1E3		1.0	_	25	50	
1.4.7.4. Bakery products with meat products, fish and seafood	1 x 1E3	1.0	1.0	0.1	25	50	

Index, group of	Indicators	Permissible levels,	Note
products		mg/kg, not more	
1	2	3	4
1.4.8.	Toxic elements:		
Bread-rings,	lead		
crackers,		0.5	
bread	arsenic	0.2	
sticks,	cadmium	0.1	
solomka, etc.	mercury	0.02	
	Mycotoxins,	according to Clause	
	pesticides	1.4.4	
	Radionuclides:	50	Bq/kg
	caesium - 137		
	strontium-90	30	the same
1.4.9.	See Section "Suga	r and Confectionery",	Clause 1.5.5
Flour			
confectionery			

# 1.5. Sugar and Confectionery

Index, group of	Indicators	Permissible levels,	Note
products		mg/kg, not more	
1	2	3	4
1.5.1.	Toxic elements:		
Sugar	lead		
		0.5	
	arsenic	1.0	
	cadmium	0.05	
	mercury	0.01	
	Pesticides <*>:	0.005	
	hexachlorocyclohe		
	xane		
	(alpha-, beta-,		
	gamma-isomers)		
	DDT and its	0.005	
	metabolites		
(as amended by A	Amendments and Addi	tions No. 18, approve	d by Resolution
No. 71 of Chief	State Sanitary Ins	pector of the RF date	d 28.06.2010)
1.5.2.	Toxic elements:		
Sugar products,	lead		
confectionery,		1.0	
east sweeties,	arsenic	1.0	
chewing gum	cadmium	0.1	
	mercury	0.01	
	Mycotoxins:	0.005	for products
	aflatoxin B1		containing nuts
	Pesticides		
	<*>,<**>		
(as amended by 1	Amendments and Addi	tions No. 18, approve	d by Resolution
-		poster of the DE date	-

No. 71 of Chief State Sanitary Inspector of the RF dated 28.06.2010)

<*> It is also required to control residual quantities of the pesticides used for production of food raw material (see Clauses 3.12, 3.13).

	T			1	L	h
Index, group of	QMAFAnM Mass of products				Moulds,	Note
products	, CETT /		which the		CFU/g,	
	CFU/g,		or is not		not	
	not	allowed		more	more	
	more		Pathogeni	than	than	
	than	m	C,			
			including			
			salmonell			
		(colifo	a			
1	2	rms)	4	5	6	7
T	2	3	4	3	O	
1.5.2.1.						
Non alamod						
Non-glazed candies and						
sweets:						
	F 1D2	1 0	2.5	10	50	
- fondant, milk	5 x 1E3	1.0	25	1 0	50	
- praline-based,	1 x 1E4	0.01	25	50	100	1
with pastry fat			_	1	1	1
s.r passery rac						
(as amended by Ame	endments	and Ado	ditions No	. 18, a	pproved	by
Resolution No. 71						
28.06.2010)						
1.5.2.2.						
Glazed candies						
and sweets with						
and sweets with bodies:						
boules.						
, , , , , ,	1		1	1.0	Ι,	1
(as amended by Ame						
Resolution No. 71 28.06.2010)	or cure	er State	Sanitary	Inspect	.01 01 10	ie Rr date
20.00.2010)						
- fondant, fruit,	1 5 1 5 /			Ir o	Ir o	ı
		1 . 0	2.5	50	150	
	I Y IDA	1.0	25	50	50	
marzipan, candied	I X IE4	1.0	25	50	50	
	I X ID4	1.0	25	50	50	
marzipan, candied roasted nuts						
marzipan, candied roasted nuts	5 x 1E4		25	50	50	
marzipan, candied roasted nuts	5 x 1E4	0.1				
marzipan, candied roasted nuts - milk, whipped		0.1	25	50	50	
marzipan, candied roasted nuts - milk, whipped - from dried fruit	5 x 1E4	0.1	25	50	50	
marzipan, candied roasted nuts  - milk, whipped  - from dried fruit  - from candied	5 x 1E4	0.1	25 25	50 200	50 100	
marzipan, candied roasted nuts  - milk, whipped  - from dried fruit  - from candied fruit,	5 x 1E4	0.1	25 25	50 200	50 100	
marzipan, candied roasted nuts  - milk, whipped  - from dried fruit  - from candied	5 x 1E4	0.1	25 25	50 200	50 100	
marzipan, candied roasted nuts  - milk, whipped  - from dried fruit  - from candied fruit, exploded cereals,	5 x 1E4	0.1	25 25	50 200	50 100	
marzipan, candied roasted nuts  - milk, whipped  - from dried fruit  - from candied fruit, exploded cereals, liqueur,	5 x 1E4	0.1	25 25	50 200	50 100	
marzipan, candied roasted nuts  - milk, whipped  - from dried fruit  - from candied fruit, exploded	5 x 1E4 5 x 1E4 1 x 1E4	0.1	25 25 25	50 200 50	50 100 50	рй
marzipan, candied roasted nuts  - milk, whipped  - from dried fruit  - from candied fruit, exploded cereals, liqueur, jelly	5 x 1E4 5 x 1E4 1 x 1E4 endments	0.1 0.1 0.1	25 25 25 ditions No	50 200 50	50 100 50	
marzipan, candied roasted nuts  - milk, whipped  - from dried fruit  - from candied fruit, exploded cereals, liqueur, jelly (as amended by Ameresolution No. 71 28.06.2010)	5 x 1E4 5 x 1E4 1 x 1E4 endments of Chie	0.1 0.1 0.1 and Add	25 25 25 ditions No	50 200 50	50 100 50 approved for of the	
marzipan, candied roasted nuts  - milk, whipped  - from dried fruit  - from candied fruit, exploded cereals, liqueur, jelly (as amended by Ameres) are solution No. 71	5 x 1E4 5 x 1E4 1 x 1E4 endments of Chie	0.1 0.1 0.1 and Add	25 25 25 ditions No	50 200 50	50 100 50	
marzipan, candied roasted nuts  - milk, whipped  - from dried fruit  - from candied fruit, exploded cereals, liqueur, jelly (as amended by Ameresolution No. 71 28.06.2010)	5 x 1E4 5 x 1E4 1 x 1E4 endments of Chie	0.1 0.1 0.1 and Add	25 25 25 ditions No	50 200 50 . 18, a Inspect	50 100 50 approved for of the	
marzipan, candied roasted nuts  - milk, whipped  - from dried fruit  - from candied fruit, exploded cereals, liqueur, jelly (as amended by Ameres Resolution No. 71 28.06.2010)  - cream, praline-	5 x 1E4 5 x 1E4 1 x 1E4 endments of Chie	0.1 0.1 0.1 and Add	25 25 25 ditions No	50 200 50 . 18, a Inspect	50 100 50 approved for of the	
marzipan, candied roasted nuts  - milk, whipped  - from dried fruit  - from candied fruit, exploded cereals, liqueur, jelly (as amended by Ameres Resolution No. 71 28.06.2010)  - cream, praline-	5 x 1E4 5 x 1E4 1 x 1E4 endments of Chie	0.1 0.1 0.1 and Add	25 25 25 ditions No	50 200 50 . 18, a Inspect	50 100 50 approved for of the	
marzipan, candied roasted nuts  - milk, whipped  - from dried fruit  - from candied fruit, exploded cereals, liqueur, jelly (as amended by Ameresolution No. 71 28.06.2010)  - cream, praline-based	5 x 1E4 5 x 1E4 1 x 1E4 endments of Chie	0.1 0.1 0.1 0.1 and Add	25 25 25 ditions No Sanitary	50 200 50 . 18, a Inspect	50 100 50 approved for of the	
marzipan, candied roasted nuts  - milk, whipped  - from dried fruit  - from candied fruit, exploded cereals, liqueur, jelly (as amended by Ameresolution No. 71 28.06.2010)  - cream, praline-pased	5 x 1E4 5 x 1E4 1 x 1E4 endments of Chie	0.1 0.1 0.1 0.1 and Add	25 25 25 ditions No	50 200 50 . 18, a Inspect	50 100 50 approved for of the 100	
marzipan, candied roasted nuts  - milk, whipped  - from dried fruit  - from candied fruit, exploded cereals, liqueur, jelly (as amended by American No. 71 28.06.2010)  - cream, praline-pased	5 x 1E4 5 x 1E4 1 x 1E4 endments of Chie	0.1 0.1 0.1 0.1 and Add	25 25 25 ditions No Sanitary	50 200 50 . 18, a Inspect	50 100 50 approved for of the 100	

Dragee (all names)	1 x 1E4	0.1	25	50	50	
1.5.2.5. Caramel non-glazed: - boiled sweets, with fondant, liqueur, fruit- and-berry, whipped fillings	5 x 1E2	1.0	25	50	50	
- with nut, chocolate-nut, chocolate, cream and other fillings	5 x 1E3	0.1	25	50	50	
1.5.2.6.						
Glazed caramel with fillings						
- fondant, fruit	1 x 1E4	0.1	25	50	50	
- milk, whipped, nut	5 x 1E4	0.1	25	50	50	
1.5.2.7.						
Diabetic hard candy	5 x 1E2	1.0	25	50	50	
1.5.2.8.						
Toffee (all names)	1 x 1E3	1.0	25	10	10	
1.5.2.9.						
Chewing gum	5 x 1E2	1.0	25	50	50	
1.5.2.10.						
Halvah:		0 01	0.5	F.0	F.0	
- glazed	1 x 1E4	0.01	25	50	50	
- non-glazed	5 x 1E4	0.01	25	50	50	
1.5.2.11.						
pastila, marsh- mallow, jelly	1 x 1E3	0.1	25	50	100	
<pre>sweets - glazed pastila, marsh-mallow,</pre>	5 x 1E3	0.1	25	50	100	
jelly sweets - diabetic pastilas and fruit jelly	1 x 1E3	1.0	25	50	50	
1.5.2.12.						

East sweeties:						
type,	5 x 1E3	0.1	25	100	100	
koskhalva, oila - soft sweet type	1 x 1E4	0.1	25	100	100	
glazed - sherbets	5 x 1E3	0.1	25	200	100	
- rahat lakoum	1 x 1E4	0.01	25		100	
1.5.2.13.						
Caramel-type East candies						
- toasted nuts	1 x 1E3	1.0	25	50	50	
- kozinak	5 x 1E3	0.1	25	50	50	
- caramel-type glazed	1 x 1E4	0.1	25	50	50	
1.5.2.14.						
Sugar decoration semi-finished products, vermicelli-type	1 x 1E3	1.0	25	50	50	

Index, group of products	Indicators	Permissible levels, mg/kg, not more than	Note
1	2	3	4
1.5.3. Sacchariferous confectionary: chocolate and chocolate products	Toxic elements: lead arsenic cadmium mercury	1.0 1.0 0.5 0.1	
	Mycotoxins: aflatoxin B1	0.005	
	Pesticides <*>,	dition No. 10 comm	

	Micro	obiologi	cal indic	ators:		
Index, group of products	CFU/g not more than	(g) in indicat allowed Colifor m	Pathogeni c, including salmonell	CFU/g, not more than	Moulds, CFU/g, not more than	Note
1	2	3	4	5	6	7
fondant chocolate without additives - plain and fondant chocolate with additives - chocolate with fillings, and Assorts-type sweets, confectionary bars		0.1	25 25 25	50 50 50	50 100 100	
1.5.3.2. Diabetic chocolate	5 x 1E3	0.1	25	50	50	
1.5.3.3.  Pastes, creams:  - milky,  chocolate  - nut	5 x 1E3		25 25	50 50	50	

Index, group of	Indicators	Permissible levels,	Note
products		mg/kg, not more	
		than	
1	2	3	4
1.5.4.	Toxic elements:		
Cacao beans and			
cacao products	lead	1.0	
	arsenic	1.0	
	cadmium	0.5	
	mercury	0.1	
	Mycotoxins:	0.005	
	aflatoxin B1		
	Pesticides <*>:		
	hexachlorocycloh	0.5	
	exane		
	(alpha-, beta-,		
	gamma-isomers)		
		0.15	
	metabolites	litiana Na O amma	

(as amended by Amendments and Additions No. 2, approved by Resolution No. 41 of Chief State Sanitary Inspector of the RF dated 15.04.2003, No. 18, approved by Resolution No. 71 of Chief State Sanitary Inspector of the RF dated 28.06.2010)

Microbiological in	ndicator	s:				
Index, group of products	CFU/g, not more than	(g) in indicat allowed Colifor m	Pathogeni c, including salmonell	CFU/g, not more than	Moulds, CFU/g, not more than	Note
1.5.4.1. Cocoa powder: - marketable for	1 x 1E5	,	25	100	100	
commercial processing	1 x 1E4		25	100	100	

Index, group of	Indicators	Permissible levels,	Note
products		mg/kg, not more	
		than	
1	2	3	4
1.5.5.	Toxic elements:		
Flour			
confectionery	lead	0.5	
	arsenic	0.3	
	cadmium	0.1	
	mercury	0.02	
	Mycotoxins:	0.005	
	aflatoxin B1		
	dezoxynivalenol	0.7	
	00201111110101101		
	Pesticides <*>:		
	hexachlorocycloh	0 2	
	exane	0.2	
	(alpha-, beta-,		
	gamma-isomers)		
		0.02	
	metabolites		
(as smanded by	•	ditiona No. 10 anno	orrad bre

Microbiological ir	ndicator	s:					
Index, group of products	CFU/g, not more than	(g) i indic allow Colif	n which ator : ed S. aureu s	ch the is not	CFU/g, not more than	Moulds, CFU/g, not more than	Note
1	2	3	4	5	6	7	8
1.5.5.1.  Pies and pastry sponge cakes, puff, short pastry, meringues, scalded, crumbs, with decorations, including frozen							

- creamy	5 х	1E4	0.01	0.01	25	100	50	<pre>&lt;*&gt; not allowed in 0.1 g for the products with shelf life of 5 days or</pre>
- whipped egg- whites, soufflé-	1 x	1E4	0.01	0.01	25	50	100	more <*> the same
type - fruit, fondant, made of chocolate glaze		1E4	0.01 <*>	0.1	25	50	100	<*> the same
- fatty	5 x	1E4	0.01 <*>	0.1	25	50	100	<*> the same
- cottage-cheese- creamy	5 x	1E4		0.1	25	- <**>	- <**>	<pre>&lt;*&gt; the same &lt;**&gt; yeast - 5 0, mould - 100CFU/g max, for the products with shelf life of 5 days or</pre>
- "potato"-type	5 x	1E4	0.01		25	50	100	more <*> the
- with scalded cream	1 x	1E4	<*> 0.01 <*>	<*> 1.0 <*>	25	50	100	same <*> the same
1.5.5.2. Pies and	1 x		1.0	0.1	25	50	50	
pastry without decoration, with decoration based on margarine, vegetable cream and fat	1E4		<*>					
1.5.5.3. Diabetic pies, pastry, and rolls	5 x	1E3	0.1	1.0	50	50	50	
1.5.5.4. Wafer cake with fillings: - fatty - praline, chocolate-nut	_	1E3 1E4	0.1	_	25 25	50 50	50 50	
1.5.5.5. Sponge rolls with fillings:								
- creamy, fatty	5 x	1E4	0.01	0.1	25	50	100	
<pre>- fruit, candied fruit, poppy seed, nuts</pre>	1 x	1E4	1.0	1.0	25	50	100	

1 5 5 6			1	1	1	ı	1	
1.5.5.6.								
Cakes:								
- with sugar	5 x	1E3	0.1		25	50	50	
powder								
	5 x	1E3	0.1		25	50	100	
nuts, candied								
fruit, with								
fruity or rum								
impregnation								
	5 x	1E3	0.1	0.1	25	50	50	
and rolls in								
airproof package								
1.5.5.8.								
Wafers:					_			
	5 x	1E3	0.1		25	50	100	
filling, with								
fruit, fondant,								
fatty fillings			0 0 5		0.5	F 0	1.00	
	5 x	1E4	0.01		25	50	100	
praline filling,								
in chocolate								
glaze								
1.5.5.9.								
Gingerbread,								
honey-cakes:								
- without filling	2.5	х	1.0		25	50	50	
	1E3							
- with filling	5 x	1E3	0.1	_	25	50	50	
1.5.5.10.								
Cookies:								
- fancy sugar	1 x	1E4	0.1		25	50	100	
cookies with								
chocolate glaze								
- with creamy	1 x	1E4	0.1	0.1	25	50	100	
layer,								
filling								
- hard tacks,	1 x	1E3	1.0		25		100	
crackers								
1.5.5.11.								
Flour East sweeties:								
sweeries:								
- sponge cakes	5 57	1E2	1 0		25	50	50	
with cinnamon,	JX	152	1.0					
kurabie, shaker-								
lucum, shaker-								
churek								
	5 ×	1E3	1.0		25	50	50	
- rolls and tubes	1 x	1E3	1.0		25	50	50	
with nuts								
- glazed	1 x	1E4	0.1		25	50	100	
	1		1	l	I	Ī	I	

Index, group of	Indicators	Permissible levels,	Note
products		mg/kg, not more	
		than	
1.5.6.	Toxic elements:		
Honey			
	lead	1.0	
	arsenic	0.5	
	cadmium	0.05	
	Oxymethylfurfuro	25	
	1		
	Pesticides: hexachlorocycloh exane	0.005	
	(alpha-, beta-, gamma-isomers)		
	DDT and its metabolites	0.005	
		(in imported products ded by the supplier)	
	tetracycline group	0.01	

(as amended by Amendments and Additions No. 18, approved by Resolution No. 71 of Chief State Sanitary Inspector of the RF dated 28.06.2010, No. 22, approved by Resolution No. 177 of Chief State Sanitary Inspector of the RF dated 27.12.2010, Amendments No. 24, approved by Resolution No. 79 of Chief State Sanitary Inspector of the RF dated 01.06.2011)

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<*> It is also required to control residual quantities of the pesticides and antibiotics used for production of food raw material (see Clauses 3.12, 3.13, 3.15).

⁽the note was amended by Amendments and Additions No. 22, approved by Resolution No. 177 of Chief State Sanitary Inspector of the RF dated 27.12.2010)

<**> Allowable levels of hexachlorocyclohexane ( $\alpha$ ,  $\beta$ ,  $\gamma$ -isomers) and DDT and its metabolites are calculated based on the main kind(s) of raw material, both on the mass fraction basis, and for allowable levels of rated pesticides.

1.6. Fruit and Vegetable Products

	1.0. Fluit and vegetable floducts							
Index, group of	Indicators	Permissible levels,	Note					
products		mg/kg, not more						
		than						
1	2	3	4					
1.6.1.	Toxic elements:							
Fresh and								
quick-frozen	lead	0.5						
vegetables,	read							
potato, water-		0.4	Fruit, berries					
melons, gourds,	arsenic	0.2						
fruit, berries,		0.5	Mushrooms					
mushrooms	cadmium	0.03						
		0.1	Mushrooms					
	mercury	0.02						
	_	0.05	Mushrooms					
ſ		I .	1					

Clause 1.6.1.in the Amendments and Additions No. 18 to the Sanitary and Epidemiological Rules and Regulations SanPiN 2.3.2.1078-01 in the part of amendment of the indicator "Nitrates" with the lines "fresh lettuce" and "iceberg lettuce" shall enter into force after the mentioned norm has been included in the Uniform Sanitary Requirements of the Customs Union.

Nitrates: Potato early green head cabbage (before September 1)	250 900	
late green head cabbage	500	
early carrot (before September 1)	400	
	250	
tomatoes	, ·	Protected ground
cucumbers	, , , , , , , , , , , , , , , , , , ,	Protected ground
	1400 80	
green onion	'	Protected ground
leaf vegetables(salad s, spinach, salad, cabbage, parsley, celery, coriander, fennel, etc.)	2000	

1	sweet pepper	200 400	
			Protected ground
	Marrow squashes Watermelons Melons	400 60 90	
	fresh lettuce	4500	grown in protected ground from October 1 till March 31
		4000	grown in unprotected ground from October 1 till March 31
		3500	grown in protected ground from April 1 till September 30
		2500	grown in unprotected ground from April 1 till September 30
	iceberg lettuce	2500	grown in protected ground
		2000	grown in unprotected ground
	Amendments and Ad	I  ditions No. 18. appr	1
		Sanitary Inspector	
Resolution No. 28.06.2010)	71 of Chief State	Sanitary Inspector	of the RF dated
		Sanitary Inspector	
	71 of Chief State Pesticides <*>: hexachlorocycloh	O.1	Potato, green pea, sugar beet
	Pesticides <*>: hexachlorocycloh exane (alpha-, beta-,	Sanitary Inspector	Potato, green pea,
	Pesticides <*>: hexachlorocycloh exane (alpha-, beta-,	O.1	Potato, green pea, sugar beet Vegetables, gourds, mushrooms Fruit, berries
	Pesticides <*>: hexachlorocycloh exane (alpha-, beta-,	O.1  0.5	Potato, green pea, sugar beet Vegetables, gourds, mushrooms Fruit,
	Pesticides <*>: hexachlorocycloh exane (alpha-, beta-, gamma-isomers)  DDT and its metabolites	0.1  0.5  0.05	Potato, green pea, sugar beet Vegetables, gourds, mushrooms Fruit, berries
28.06.2010)	Pesticides <*>: hexachlorocycloh exane (alpha-, beta-, gamma-isomers)  DDT and its metabolites Radionuclides:	O.1  O.5  O.05  O.1	Potato, green pea, sugar beet Vegetables, gourds, mushrooms Fruit, berries grapes,

	strontium-90	40	same
berries in wild nature	caesium - 137	160	same
	strontium-90		the norms are not established
mushrooms	caesium-137	500	Bq/kg
	strontium-90		the norms are not established
fruit, berries, grapes	caesium -137 and strontium-90		the norms are not established

			cal indic			
Index, group of			products	Yeast,		Note
products	,	(g, cm3	) in	CFU/g,	CFU/g,	
	CFU/g,	which t	he	not	not	
	not	indicat	or is not	more	more	
	more	allowed		than	than	
	than	Colifor	Pathogeni	1	1	
		m	c,			
		bacteri	including			
			salmonell			
		(colifo				
		rms)				
1	2	3	4	5	6	7
1.6.1.1.						
Vegetables and						
potatoes, fresh,						
fresh-frozen and						
processed:						
1	1 x 1E4	1.0	25	1 x 1E	2 1 x 1E2	L.
vegetables						monocytogen
. 090000100						es in 25 g
						are not
						admitted
blanched, fresh-						adilizeed
frozen						
- fresh whole	1 x 1E5	0 01	25	5 v 1r	25 🕶 1 🗁	<*> for cut
vegetables, non-	<*>	0.01		J A 11	2 0 2 102	vegetables,
blanched, fresh-						including
frozen						mixtures -
rrozen						5 x 1E5
amoon and look	5 x 1E5	0 01	25	E 1 T	0 5 1 17 0	in blanched
-	S X IES	0.01	2.5	O X IE	Z S X IEZ	
vegetables,						L.
fresh-frozen						monocytogen
						es in 25 g
						are not
6	1 1 4	1 0	2.5	1 1-	01 - 150	admitted
	1 x 1E4	1.∪	25	T x TE	2 1 x 1E2	
blanched						
mushrooms		0 01	0.5			
- potato semi-	5 x 1E4	0.01	25	1 x 1E	3	
finished						
products, fresh-						
frozen (garnish						
potato, potato						
chops, meatballs,						
etc.)						
- salads and	5 x 1E4	0.1	25	1 x 1E	2 1 x 1E2	L.

mixtures made of						monocytogen
						es in
blanched						25 g are
vegetables,						not
fresh-frozen						admitted
- vegetable puree	5 x 1E	40.1	25	2 x 1E2	2 x 1E2	Sulphite-
semi-finished						reducing
products, fresh-						clostridia
frozen						in 1 g are
						not
						admitted
- vegetable	1 x 1E	50.1	25	1 x 1E3		
chops, fresh-						
frozen (semi-						
finished						
products)						
vegetable and	5 x	0.01	25		2 x	
potato semi-	4				2	
finished products	10				10	
in dough coating						
(as amended by Ame	endment	s and Ad	ditions No	o. 18, ag	pproved	by
Resolution No. 71	of Chi	ef State	Sanitary	Inspect	or of th	ne RF dated

28.06.2010

28.06.2010									
1.6.1.2.									
Fruit, berries,									
grapes									
quick-frozen and									
processed									
- fruit of seed-	5 x	1E4	0.1	25	2 x	1E2	2 x	1E3	
bearing and									
smooth-skinned									
drupaceous,									
quick-frozen									
- fruit of nappy	5 x	1E5	0.1	25	5 x	1E2	1 x	1E3	
drupaceous,									
quick-frozen									
- fresh berries	5 x	1E4	0.1	25	2 x	1E2	5 x	1E2	
in vacuum package									
and whole									
berries, quick-									
frozen				_					
	1 x	1E5	0.01	25	5 x	1E2	1 x	1E2	
crushed berries,									
quick-frozen			1 0	0.5	_				_
- dessert fruit	1 x	1E3	1.0	25	1 x	1- >	1 x	- 4- 5	<*> total
and berry dishes,					1EZ	< * >	TE/Z	< * >	amount of
fresh-frozen									yeast and
			0 1	0.5	1		1		mould
- semi-finished	1 x	1E5	0,1	25	1 x		1 x		<*> the
products					IE3	< * >	IE3	< * >	same
dessert									
fruit									
- fruit semi-	1 x		0,01	25	1 x		1 x		<*> - total
finished products	5				3		3		amount of
-	10				10		10		yeast and
quick-frozen									mould
(introduced by Ame	-ndm	ents	and Ad	ditions No	. 18	33.	appr	ovec	l by

Index, group of	Indicators	Permissible levels,	Note
		1011001.010	11000
products		mg/kg, not more	
		than	
1	2	3	4
1.6.2.	Toxic elements,	according to Clause	in terms of
Dried	nitrates,	1.6.1	original
vegetables,	pesticides		product subject
potato, fruit,			to the content
berries,			of dry
mushrooms			substances in
			the raw and
			final product
Potato	Radionuclides:	600	Bq/kg
	caesium - 137		
	strontium-90	200	the same
vegetables,	caesium - 137	600	the same
gourds	strontium-90	200	the same
berries	caesium - 137	800	the same
wild-growing mushrooms	caesium-137	2500	the same

(as amended by Amendments and Additions No. 2, approved by Resolution No. 41 of Chief State Sanitary Inspector of the RF dated 15.04.2003, No. 18, approved by Resolution No. 71 of Chief State Sanitary Inspector of the RF dated 28.06.2010)

Microbi	biological indic		dicator	s:	
Index,	group	of		QMAFAnM	Ма

	ſ				
Index, group of products	,	(g, cm ³ ) the ind not all Colifor m bacteri	in which icator is owed  Pathogenic, including salmonell		Note
1	2	3	4	5	6
1.6.2.1. Dried vegetables and potato:					
- dried vegetables non- blanched before drying	5 x 1E5	0.01	25	5 x 1E2	B. cereus 1 x 1E3 CFU/g, not more than
- dry potato mash	5 x 1E4	0.1	25	5 x 1E2	
- dried potato and other root crops blanched before drying	2 x 1E4	0.01	25	5 x 1E2	
- potato chips	1 x 1E3	0.1	25	_	

- chips and extruded products with flavour additives	1 x	1E4	0.1	25	2 x	1E2	
1.6.2.2. Dried fruit and berries: - fruit and berries (dried fruit)	5 x	1E4	0.1	25	5 x	1E2	yeast 5 x 1E2 CFU/g, not more than
- fruit and berries, fruit- and-berry purée of sublimation drying	5 x	1E4	0.1	25	1 x	1E2	Citaii
	1 x	1E3	1.0	25	50		yeast 5 0 CFU/g, not more than
(as amended by Ame Resolution No. 41 15.04.2003)						approved b	У
	5 x	1E5	0.001	25	5 x	1E2	
1.6.2.4.							
Edible concentrates: - vegetable and fruit desserts (heat-dried)	5 x	1E3	1.0	25	1 x		S.aureus in 1 g and B. cereus in 0.1 r are not allowed
- vegetable powders (of sublimation drying)	5 x	1E4	0.01	25	1 x	1E2	

Index, group of	Indicators	Permissible levels,	Note
products		mg/kg, not more	
		than	
1	2	3	4
1.6.3.	Toxic elements:		
Canned			
vegetables,	lead	0.5 0.4 1.0	Fruit, berries
fruit,			in assembled
berries			tin containers
	arsenic	0.2	
	cadmium	0.03	
		0.05	in assembled
			tin containers
	mercury	0.02	
	stannum	200.0	in assembled
			tin containers
	chrome	0.5	in chromium-
			plated package
	Mycotoxins:		
	Patuline	0.05	apple, tomato,
			sea-buckthorn
	Nitrates,	according to Clause	
	pesticides,	1.6.1	
	radionuclides		

Microbiological indicators:	
Index, group of products	Requirements
1.6.3.1. Canned vegetables with pH of not less than 4.2, canned apricots, peaches and pears with pH of not less than 3.8 produced without addition of acid	Shall satisfy requirements for industrial sterility for canned food of group "A" in accordance with Annex 8 to these Sanitary Rules
1.6.3.2. Non-concentrated whole canned tomatoes with dry matter content of less than 12%	Shall satisfy requirements for industrial sterility for canned food of group "B" in accordance with Annex 8 to these Sanitary Rules.
1.6.3.3. Canned vegetables with pH of 3.7 - 4.2	Shall satisfy requirements for industrial sterility for canned food of group "C" in accordance with Annex 8 to these Sanitary Rules
7.6.3.4. Canned vegetables (with pH of less than 3.7), fruit and fruit-and-berry pasteurized, canned foods for public catering with sorbic acid and pH of less than 4.0; canned apricots, peaches and pears with pH of less than 3.8	Shall satisfy requirements for industrial sterility for canned food of group "D" in accordance with Annex 8 to these Sanitary Rules

Index, group of	Indicators	Permissible levels,	Note			
products		mg/kg, not more				
		than				
1	2	3	4			
1.6.4.	Toxic elements:					
Canned						
mushrooms	lead	0.5				
		1.0	in assembled			
			tin containers			
	arsenic	0.5				
	cadmium	0.1				
	mercury	0.05				
	stannum	200.0	in assembled			
			tin containers			
	chrome	0.5	in chromium-			
			plated package			
	Pesticides,	according to Clause				
	radionuclides:	1.6.1				
Microbiological indicators:						

Microbiological indicators:

Shall satisfy requirements for industrial sterility for canned food of group "A" (natural mushrooms) or canned food of group "B" (pickled mushrooms) in accordance with Annex 8 to these Sanitary Rules

Index, group	Indicators	Permissible levels,	Note
of products		mg/kg, not more	
1	2	3	4
1.6.5. Vegetable, fruit, berry juices, nectars,fruit waters,concentr ates, semi- finished products (canned); fruit and fruit-and- berry,flavoured ice-cream and food service	Toxic elements		
ice - juices, nectars,semi- finished products,ice- cream	lead	0.5 0.4	vegetable, fruit, berry in assembled tin containers
	arsenic cadmium	0.2 0.03 0.05	in assembled tin containers
	mercury stannum	0.02	in assembled tin containers

	chrome	0.5	in chromium-
- beverages,	lead	0.3	plated package
food service ice	arsenic	0.1	
	cadmium mercury	0.03 0.005	
- concentrates		according to Clause 1.6.1	in terms of original product subject to content of dry substances in the raw material and the final product
	Mycotoxins:		_
- vegetable, fruit juices, beverages, concentrates,	patuline	0.05	apple, tomato, sea-buckthorn
semi-finished products	patuline	0.05	tomato pulp, apple pulp
- juices, beverages, concentrates,	Nitrates, pesticides	according to Clause	for beverages and concentrates in terms of original product subject to content of dry substances in the raw material and the final product
- juices,	Radionuclides: caesium-137	according to Clause	
beverages	strontium-90	1.6.1	

(as amended by Amendments and Additions No. 2, approved by Resolution No. 41 of Chief State Sanitary Inspector of the RF dated 15.04.2003, No. 18, approved by Resolution No. 71 of Chief State Sanitary Inspector of the RF dated 28.06.2010)

Microbiological indicators:						
Index, group of products	Requirements					
1.6.5.1. Preserved vegetable juices with pH 4.2 or more	Shall satisfy requirements for industrial sterility for canned food of group "A" in accordance with Annex 8 to these Sanitary Rules					
1.6.5.2. Preserved tomato beverages with dry substance content of less than 12%	Shall satisfy requirements for industrial sterility for canned food of group "B" in accordance with Annex 8 to these Sanitary Rules					

1.6.5.3. Concentrated tomato products with dry substance content of more than 12% (tomato pastes, tomato sauces)	Shall satisfy requirements for industrial sterility for canned food of group "B" in accordance with Annex 8 to these Sanitary Rules. Mould content by Howard in tomato paste should not exceed 40% Of visual field.
1.6.5.4. Sterilized tomato ketchups with dry substance content 12% and more	Shall satisfy requirements for industrial sterility for canned food of group "B" in accordance with Annex 8 to these Sanitary Rules.
1.6.5.5. Vegetable juices with pH 3.7-4.2 (with acid addition)	Shall satisfy requirements for industrial sterility for canned food of group "C" in accordance with Annex 8 to these Sanitary Rules
1.6.5.6. Vegetable juices with pH below 3.7; fruit (made of citruses), fruit and berry including those with sugar, natural with pulp, concentrated, pasteurized; preserved apricot, peach and pear juices with pH 3.8 and less	Shall satisfy requirements for industrial sterility for canned food of group "D" in accordance with Annex 8 to these Sanitary Rules

Index, group of	OMAFARM	Magg of	products	Veast	Mould	Note
products				CFU/cm3		
<u>+</u>		-				
	1			1	, not	
	l'		or is not		more	
	more			than	than	
	than	Colifor	Pathogeni			
		m	С,			
		bacteri	including			
		a	salmo-			
		(colifo	nella			
		rms)				
1	2	3	4	5	6	7
1.6.5.7. Fruit	50	1000		1.0 <*>	5.0	lactic acid
and berry juices						microorgani
= =						sms in 1cm3
and beverages,						
pasteurized,						are not
carbonated with						admitted;
pH 3.7 or less						<*> weight
						of cm3, in
						which the
						indicator
						is not
						allowed

1.6.5.8. Concentrates of fruit, fruit and berry and berry juices for industrial processing and: pasteurized	sterili	ty for o	requiremen canned foo n Annex 8	d of gro	oup "D" e Sanita	in ry Rules
including quick- frozen	J X IES	1.0	23	ZXIES	J X IEZ	
1.6.5.9. Non-sterilized tomato sauces and ketchups, including those with preservative addition	5 x 1E3	1.0	25	50		sulphite- reducing clostridia in 0.1 cm3 are not allowed
1.6.5.10. Fruit and berry ice-cream and fruit ice based on sugar syrup, including flavoured	1 x 1E5	0.01	25	100	100	
(as amended by Ame Resolution No. 41 15.04.2003)						
1.6.5.11. Mixtures for fruit and berry ice cream and fruit ice	5 x 1E4	0.01	25	100		Dry mixtures are controlled after reconstitut ion with water
1.6.5.12. Vegetable and fruit juices, which are fresh- squeezed and sold without storage	accordi	ng to Cl	lause 1.9.	15.16		

Index, group of products		Permissible levels, mg/kg, not more	Note
1	2	3	4
1.6.6. Jams, marmalade, fruit pastes, confitures, fruit and	Toxic elements:		in assembled tin containers
with sugar and	arsenic	1.0	

other fruit an berry concentrates	d mercury	0.02	
with sugar	stannum	200.0	in assembled tin containers
	chrome	0.5	in chromed containers
	Mycotoxins: Patuline	0.05	apple, sea- buckthorn
	Nitrates, pesticides <**>		

(as amended by Amendments and Additions No. 18, approved by Resolution No. 71 of Chief State Sanitary Inspector of the RF dated 28.06.2010)

	Mic	robiolog	ical indi	cators:		
Index, group of products	, CFU/g, not	(g, cm3 which t indicat allowed Colifor m bacteri	Pathogeni c, including salmonell	CFU/g, not more than	Moulds, CFU/g, not more than	Note
1	2	3	4	5	6	7
1.6.6.1. Jams, marmalade, fruit pastes, confitures, fruit and berries crushed with sugar and other fruit and berry concentrates with sugar, non- sterilized		1.0	25	50	50	
1 6 6 0	23 22		<u> </u>		1 1	

1.6.6.2.

Jams, marmalade,
fruit pastes,
confitures, fruit
and berries
crushed with
sugar and other
fruit and berry
concentrates with
sugar, exposed to
various
thermophysical
treatment

1.6.6.2. Shall satisfy requirements for industrial sterility Jams, marmalade, for canned food of group "D" in accordance with fruit pastes, Annex 8 to these Sanitary Rules

Index, group of products		Permissible levels, mg/kg, not more	Note
1	2	3	4
mushrooms	Toxic elements, nitrates, pesticides, radionuclides	according to Clause 1.6.1	

Microbiological indicators:					
	Mass of products (g, cm3 not allowed	3) in which the indicator is			
	Mesophilic sulphite- reducing clostridia	Pathogenic including salmonella			
1.6.7.1. Ready to use sour and brined vegetables (cabbage, cucumbers, tomatoes etc.);		25			
soaked and brined fruits, including cucurbits crop (packaged and non-packaged)					
1.6.7.2. Mushrooms preserved: brined and pickled in barrels, cooked in barrels	0.1	25			

Index, group of products		Permissible levels, mg/kg, not more	Note			
1.6.8. Spices and dried spice	Toxic elements:					
plants		5.0 3.0				
arsenic 3.0 0.2 (as amended by Amendments and Additions No. 18, approved by Resolution No. 71 of Chief State Sanitary Inspector of the RF dated 28.06.2010)						

	Micr	obiolog	ical ind	dicators:		
Index, group of products	CFU/g, not more	cm3) in indicat	which tor is no		Moulds, CFU/g, not more than	Note
		bacteri a (colifo	e- reducin g clostri dia	c, including salmonell a		
1	2	3	4	5	6	7
1.6.8.1. Spices and spice plants:						
- ready for use	5 x 1E5	0.01	0.01	25	1 x 1E3	
- spices and spice plants, raw materials: whole black pepper, bayberry, red pepper, coriander, cinnamon, nutmeg, etc.	2 x 1E6	0.001		25	1 x 1E4	
1.6.8.2. Complex food additives with spices and spice plants	5 x 1E5	0.01	0.01	25	2 x 1E2	
1.6.8.3. Flavourings - table mustard and horse reddish	5 x 1E4	0.01	0.01	25	2 x 1E2	

1.6.8.4. Garlic powder (freeze- dried)	5 x 1E3 1.0	25 1 x	B.cereus 1 x 1E2 CFU/g max
Index, group of products		Permissible levels, mg/kg, not more	Note
1	2	3	4
1.6.9. Nuts	Toxic elements: lead arsenic cadmium mercury	0.5 0.3 0.1 0.05	
	hexachlorocycloh exane (alpha-, beta-, gamma-isomers)	0.5	
	Mycotoxins: aflatoxin B1	0.005	

(as amended by Amendments and Additions No. 18, approved by Resolution No. 71 of Chief State Sanitary Inspector of the RF dated 28.06.2010)

	Microbio	ological indica	tors:	
Index, group of products	_	_	Moulds, CFU/g not more than	Note
	Coliform bacteria (coliforms)	Pathogenic, including salmonella		
1	2	3	4	5
1.6.9.1. Natural nuts (almond, walnut, peanut, pistachio, butternut, hickory, coconut) pealed, non- roasted	0.01	25	1 x 1E3	
1.6.9.2. Roasted nuts	0.1	25	5 x 1E2	
(as amended by A Resolution No. 4 15.04.2003)			2, approved by inspector of the F	RF dated
1.6.9.3. Chopped dried coconuts	0.01	25	1 x 1E2	

1.6.9.4. Chopped coconuts	0.01	25	1 x 1E2	
coconuts				

Index, group of	Indicators	Permissible levels,	Note
products		mg/kg, not more	
1.6.10. Tea	Toxic elements:		
(black, green,			
brick)	lead	10.0	
	arsenic	1.0	
	cadmium	1.0	
	mercury	0.1	
	Mycotoxins:	0.005	
	aflatoxin B1		
	Microbiological		
	indicators:		
	Moulds,	1 x 1E3	CFU/g, not more
	induids,		than
(as amended by A	Amendments and Ado	ditions No. 18, appro	oved by
Resolution No. 7	71 of Chief State	Sanitary Inspector	of the RF dated
28.06.2010)			
1.6.11. Coffee	Toxic elements:		
(in beans,			
ground,	lead	1.0	
instant)	arsenic	1.0	
	cadmium	0.05	
	mercury	0.02	
	Mycotoxins:	0.005	
	aflatoxin B1		
	Mignobiological		
	Microbiological indicators:		
	Moulds	5 x 1E2	CFU/g max,
			green coffee beans
(as amended by A	Amendments and Ado	ı ditions No. 18, appro	
		Sanitary Inspector	
28.06.2010)		- <b>-</b>	

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<*> It is also required to control residual quantities of the pesticides used for production of food raw material (see Clauses 3.12, 3.13).

<**> Nitrates and pesticides shall be calculated for the main type(s) of raw material, both for the mass fraction, and for allowable levels of such contaminants.

Index, group of		y Raw Materials and Fat Produ Permissible levels,	Note
products		mg/kg, not more	
1	2	3	4
1.7.1. Oil	Toxic elements:		
crops seeds	lead	1.0	
sunflower, soy	arsenic	0.3	
ean, cotton	cadmium	0.1	
olant, maize,		0.5	for poppy seed
	mercuric	0.05	Tor poppy seed
lax, mustard,	Mycotoxins:	0.005	
ape, peanut,	aflatoxin B1		
oppy seed)	Pesticides <*>:		
	hexachlorocycloh	0 2	aar baan
	_	0.2	soy bean,
	exane	0 4	cotton plant;
	(alpha-, beta-,	0.4	flax, mustard,
	gamma-isomers)	0 5	rape;
		0.5	sunflower,
			peanut, maize
	DDT and its	0.05	soy bean,
	metabolites		cotton plant,
			maize
		0.1	flax, mustard,
			rape,
		0.15	sunflower,
			peanut
5.04.2003, No.	41 of Chief State 18, approved by 1 tor of the RF date	Resolution No. 71 of	
5.04.2003, No. anitary Inspec	18, approved by 1	Resolution No. 71 of	
5.04.2003, No. sanitary Inspec7.2.	18, approved by tor of the RF date	Resolution No. 71 of	
5.04.2003, No. Sanitary Inspec .7.2. Yegetable oil	18, approved by tor of the RF date Indications of	Resolution No. 71 of	
5.04.2003, No. anitary Inspec .7.2. egetable oil	18, approved by tor of the RF date Indications of oxidative	Resolution No. 71 of	
5.04.2003, No. anitary Inspec .7.2. egetable oil	18, approved by tor of the RF date Indications of oxidative deterioration:	Resolution No. 71 of ed 28.06.2010)	Chief State
5.04.2003, No. anitary Inspec .7.2. egetable oil	18, approved by tor of the RF date Indications of oxidative deterioration:	Resolution No. 71 of ed 28.06.2010)	Chief State
5.04.2003, No. anitary Inspec .7.2. Yegetable oil	18, approved by tor of the RF date Indications of oxidative deterioration:	Resolution No. 71 of ed 28.06.2010)	mg potassium hydroxide /g
5.04.2003, No. anitary Inspec .7.2. egetable oil	18, approved by tor of the RF date Indications of oxidative deterioration:	Resolution No. 71 of ed 28.06.2010)	mg potassium hydroxide /g the same for refined oils
5.04.2003, No. anitary Inspec .7.2. Yegetable oil	18, approved by tor of the RF date Indications of oxidative deterioration: acid value	Resolution No. 71 of ed 28.06.2010) 4.0 0.6	mg potassium hydroxide /g the same for refined oils mmol of active
5.04.2003, No. anitary Inspec .7.2. Yegetable oil	18, approved by tor of the RF date Indications of oxidative deterioration: acid value	Resolution No. 71 of ed 28.06.2010) 4.0 0.6	mg potassium hydroxide /g the same for refined oils
5.04.2003, No. anitary Inspec .7.2. Yegetable oil	18, approved by tor of the RF date Indications of oxidative deterioration: acid value	Resolution No. 71 of ed 28.06.2010) 4.0 0.6	mg potassium hydroxide /g the same for refined oils mmol of active
5.04.2003, No. Sanitary Inspec .7.2. Yegetable oil	18, approved by tor of the RF date Indications of oxidative deterioration: acid value peroxide value	Resolution No. 71 of ed 28.06.2010)  4.0  0.6  10.0	mg potassium hydroxide /g the same for refined oils mmol of active
5.04.2003, No. anitary Inspec .7.2. Yegetable oil	18, approved by tor of the RF date Indications of oxidative deterioration: acid value peroxide value	Resolution No. 71 of ed 28.06.2010)  4.0  0.6  10.0	mg potassium hydroxide /g the same for refined oils mmol of active oxygen / kg
5.04.2003, No. anitary Inspec .7.2. Yegetable oil	18, approved by tor of the RF date Indications of oxidative deterioration: acid value  peroxide value  Toxic elements: lead	Resolution No. 71 of ed 28.06.2010)  4.0  0.6  10.0  0.1  0.2	mg potassium hydroxide /g the same for refined oils mmol of active oxygen / kg
5.04.2003, No. anitary Inspec .7.2. egetable oil	18, approved by tor of the RF date Indications of oxidative deterioration: acid value  peroxide value  Toxic elements: lead  arsenic	Resolution No. 71 of ed 28.06.2010)  4.0  0.6  10.0  0.1  0.2  0.1	mg potassium hydroxide /g the same for refined oils mmol of active oxygen / kg
5.04.2003, No. anitary Inspec .7.2. egetable oil	18, approved by tor of the RF date Indications of oxidative deterioration: acid value  peroxide value  Toxic elements: lead  arsenic cadmium mercury	Resolution No. 71 of ed 28.06.2010)  4.0  0.6  10.0  0.1  0.2  0.1  0.05	mg potassium hydroxide /g the same for refined oils mmol of active oxygen / kg
5.04.2003, No. anitary Inspec .7.2. egetable oil	18, approved by tor of the RF date Indications of oxidative deterioration: acid value  peroxide value  Toxic elements: lead  arsenic cadmium mercury Mycotoxins:	Resolution No. 71 of ed 28.06.2010)  4.0  0.6  10.0  0.1  0.2  0.1  0.05  0.03	mg potassium hydroxide /g the same for refined oils mmol of active oxygen / kg  peanut  for unrefined
5.04.2003, No. Sanitary Inspec .7.2. Yegetable oil	18, approved by tor of the RF date Indications of oxidative deterioration: acid value  peroxide value  Toxic elements: lead  arsenic cadmium mercury Mycotoxins: aflatoxin B1	Resolution No. 71 of ed 28.06.2010)  4.0  0.6  10.0  0.1  0.2  0.1  0.05  0.03  0.005	mg potassium hydroxide /g the same for refined oils mmol of active oxygen / kg  peanut
5.04.2003, No. anitary Inspec .7.2. Yegetable oil	18, approved by tor of the RF date Indications of oxidative deterioration: acid value  peroxide value  Toxic elements: lead  arsenic cadmium mercury Mycotoxins: aflatoxin B1 Pesticides <*>:	Resolution No. 71 of ed 28.06.2010)  4.0  0.6  10.0  0.1  0.2  0.1  0.05  0.03	mg potassium hydroxide /g the same for refined oils mmol of active oxygen / kg  peanut  for unrefined
5.04.2003, No. Sanitary Inspec .7.2. Yegetable oil	18, approved by tor of the RF date Indications of oxidative deterioration: acid value  peroxide value  Toxic elements: lead  arsenic cadmium mercury Mycotoxins: aflatoxin B1 Pesticides <*>: hexachlorocycloh	Resolution No. 71 of ed 28.06.2010)  4.0  0.6  10.0  0.1  0.2  0.1  0.05  0.03  0.005	mg potassium hydroxide /g the same for refined oils mmol of active oxygen / kg  peanut  for unrefined
5.04.2003, No. anitary Inspec .7.2. Yegetable oil	18, approved by tor of the RF date Indications of oxidative deterioration: acid value  peroxide value  Toxic elements: lead  arsenic cadmium mercury Mycotoxins: aflatoxin B1 Pesticides <*>:	Resolution No. 71 of ed 28.06.2010)  4.0  0.6  10.0  0.1  0.2  0.1  0.05  0.03  0.005	mg potassium hydroxide /g the same for refined oils mmol of active oxygen / kg  peanut  for unrefined oils
5.04.2003, No. Sanitary Inspec .7.2. Yegetable oil	18, approved by tor of the RF date Indications of oxidative deterioration: acid value  peroxide value  Toxic elements: lead  arsenic cadmium mercury Mycotoxins: aflatoxin B1 Pesticides <*>: hexachlorocycloh exane	Resolution No. 71 of ed 28.06.2010)  4.0  0.6  10.0  0.1  0.2  0.1  0.05  0.03  0.005	mg potassium hydroxide /g the same for refined oils mmol of active oxygen / kg  peanut  for unrefined oils  refined,
5.04.2003, No. Sanitary Inspec7.2. Yegetable oil	18, approved by tor of the RF date Indications of oxidative deterioration: acid value  peroxide value  Toxic elements: lead  arsenic cadmium mercury  Mycotoxins: aflatoxin B1  Pesticides <*>: hexachlorocycloh exane  (alpha-, beta-,	Resolution No. 71 of ed 28.06.2010)  4.0  0.6  10.0  0.1  0.2  0.1  0.05  0.03  0.005	mg potassium hydroxide /g the same for refined oils mmol of active oxygen / kg  peanut  for unrefined oils
5.04.2003, No.	18, approved by tor of the RF date Indications of oxidative deterioration: acid value  peroxide value  Toxic elements: lead  arsenic cadmium mercury Mycotoxins: aflatoxin B1 Pesticides <*>: hexachlorocycloh exane	Resolution No. 71 of ed 28.06.2010)  4.0  0.6  10.0  0.1  0.2  0.1  0.05  0.03  0.005	mg potassium hydroxide /g the same for refined oils mmol of active oxygen / kg  peanut  for unrefined oils  refined,

0.1

60

80 0.00000075 refined, deodorized

the same (in terms of

Bq/kg

metabolites

Radionuclides: caesium - 137 strontium-90 Dioxins <***>:

1		T.	1
			fat)
		ditions No. 10, appro	
Resolution No.	43 of Chief State	Sanitary Inspector	of the RF dated
16.07.2008)			
1.7.3.	Indications of		
Products of	oxidative		
processing of	deterioration:		
vegetable oils			
and animal			
fats, including	peroxide value	10	mmol active
fish fat,			oxygen / kg
(margarine,	Toxic elements:		
cooking fats,	lead	0.1	
confectionery		0.3	mayonnaise
fats,	arsenic	0.1	
mayonnaise,	cadmium	0.05	
phosphatide	mercury	0.05	
concentrates)	nickel	0.7	for margarines,
			cooking and
			confectionery
			fats
	Mycotoxins:	0.005 according	
	aflatoxin B1	to Clause 1.7.2	
	Pesticides,		
	radionuclides		
	Polychlorinated	3.0	for products,
	biphenyls		containing fish
			fats
	Dioxins <***>:	according to Clause	
		1.7.2 - based on	fat)
		vegetable oils,	
		according to Clause	
		1.7.4 - based on	
		animal fats,	
		according to Clause	
		1.3.6 - based on	
	•	fish fat	
		ditions No. 10, appro	

(as amended by Amendments and Additions No. 10, approved by Resolution No. 43 of Chief State Sanitary Inspector of the RF dated 16.07.2008)

Microbiological indicators:

	Micr	obiologi	cal indication	Microbiological indicators:						
Index, group of	QMAFAnM	Mass of	products	Yeast,	Moulds,	Notes				
products	,	(g), in	which	CFU/g,	CFU/g,					
	CFU/g,	the ind	icator is	not	not					
	not	not all	owed	more	more					
	more	Colifor	Pathogeni	than	than					
	than	m	C,							
		bacteri	including							
			salmonell							
		(colifo	a							
		rms)								
1	2	3	4	5	6	7				
1.7.3.1.	_	0.1	25	5 x 1E2	50					
Mayonnaise - in										
consumer										
containers										
- for industrial		0.01	25	1 x 1E3	50					
processing										
1.7.3.2.		0.001	25	1 x 1E3	1 x 1E2					
Cooking and										
confectionery										
fats										
1.7.3.3.		0.01	25	5 x 1E2	50					
Table, sandwich										

margarines						
1.7.3.4.	1 x 1E4	0.01	25	50	50	
Vegetable oil-						
based creams						

Index, group of	Indicators	Permissible levels,	Notes
products		mg/kg, not more	
Produces		Ing, kg, not more	
1	2	3	4
		3	4
1.7.4. Beef,	Toxic elements:		
pork, mutton			
and other raw	lead	0.1	
tallow of	arsenic	0.1	
slaughter	cadmium	0.03	
cattle	mercury	0.03	
(chilled,	1		
frozen)	Antibiotics <*>:		
Chilled,	laevomycetin	0.01	Expiring on
frozen, salted,	(chloramphenicol	0.01	01.01.2012.
smoked pork fat	(CIIIOTampheliicoi		01.01.2012.
-	)	0.0003	Ch - 1 1 h
		0.0003	Shall become
			effective since
			01.01.2012.
	tetracycline	0.01	
	group		
	group		
	bacitracin	0.02	
	Dacitiacin	0.02	
(as amended by A	Amendments No. 24	, approved by Resolut	tion No. 79 of
_		f the RF dated 01.06	
		1	1
	Nitrosamines:	0.002 0.004	smoked pork fat
	sum of N-		
	Nitrosodimethyla		
	mine and N-		
	Nitrosodiethylam		
	ine		
	Benz(a)pyrene	0.001	smoked pork fat
	Pesticides <*>:	0.2	
	hexachlorocycloh		
	exane		
	(alpha-, beta-,		
	gamma-isomers)		
	Samma TOOMETO!		
	DDT and its	1.0	
	metabolites		
	Dioxins <***>:	0.000000	(1)
	DIOXIUS <^^^>:	0,000003 - beef	(in terms of
		fat,	fat)
		0,000001 - pork	
		fat,	
		0,000002 - poultry	
		fat,	
		0,000002 - animal	
		fats mixed together	
(as amended by A	ı Amendments and Ado	 ditions No. 10, appro	ı oved by

(as amended by Amendments and Additions No. 10, approved by Resolution No. 43 of Chief State Sanitary Inspector of the RF dated 16.07.2008, No. 18, approved by Resolution No. 71 of Chief State Sanitary Inspector of the RF dated 28.06.2010)

Microbiological indicators:					
Index, group of products	CFU/g, not more than	which to not all colifor m bacteri a (colifo	he indicowed Sulphit e- reducin	Pathogeni c, including salmonell	
1.7.4.1. Pork fat, chilled, frozen, unsalted	5 x 1E4	0.001			L. monocytogenes in 25 g are not allowed
1.7.4.2. Pork fat and pork brisket products, salted, smoked, smoked - roasted	5 x 1E3	1.0	0.1	25	the same for salted and smoked products

ITTIGOTE STEED OF	Indicators	Permissible levels,	Notes
products	Indicacois	mg/kg, not more	110000
products		mg/kg, not more	
1	2	3	4
1.7.5. Rendered	Indications of		
animal fats	oxidative		
	deterioration:		
	acid value	4.0	Mg potassium
			hydroxide/g
	peroxide value	10.0	mmol active
			oxygen / kg
	Toxic elements:		
	lead .	0.1	
	arsenic	0.1	
	cadmium	0.03	
	mercury	0.03	
	copper	0.4	for storage
			delivered
			delivered
	iron	1.5	the same
	Antibiotics,	according to Clause	
	nitrosamines,	1.7.4	
	pesticides		
	pesticides		
	Dioxins <***>:	according to Clause	(in terms of
İ			(III CCIMO OI
		1.7.4	fat)
Resolution No. 4	43 of Chief State	 ditions No. 10, appr   Sanitary Inspector     Resolution No. 71 of	l oved by of the RF dated
Resolution No. 4	43 of Chief State 18, approved by 1	 ditions No. 10, appr   Sanitary Inspector     Resolution No. 71 of	l oved by of the RF dated
Resolution No. 16.07.2008, No. Sanitary Inspec	43 of Chief State 18, approved by I tor of the RF date	 ditions No. 10, appr   Sanitary Inspector     Resolution No. 71 of	l oved by of the RF dated
Resolution No. 16.07.2008, No. Sanitary Inspect	13 of Chief State 18, approved by I tor of the RF date Indications of	 ditions No. 10, appr   Sanitary Inspector     Resolution No. 71 of	l oved by of the RF dated
Resolution No. 16.07.2008, No. Sanitary Inspect	43 of Chief State 18, approved by 1 tor of the RF date Indications of oxidative deterioration:	ditions No. 10, appr Sanitary Inspector Resolution No. 71 of ed 28.06.2010)	l oved by of the RF dated
Resolution No. 16.07.2008, No. Sanitary Inspect	18, approved by 1 tor of the RF date  Indications of oxidative deterioration:  fat phase	 ditions No. 10, appr   Sanitary Inspector     Resolution No. 71 of	oved by of the RF dated Chief State
Resolution No. 16.07.2008, No. Sanitary Inspect	43 of Chief State 18, approved by 1 tor of the RF date Indications of oxidative deterioration:	ditions No. 10, appr Sanitary Inspector Resolution No. 71 of ed 28.06.2010)	l oved by of the RF dated
Resolution No. 16.07.2008, No. Sanitary Inspect	18, approved by 1 tor of the RF date  Indications of oxidative deterioration:  fat phase	ditions No. 10, appr Sanitary Inspector Resolution No. 71 of ed 28.06.2010)	oved by of the RF dated Chief State
Resolution No. 16.07.2008, No. Sanitary Inspect	13 of Chief State 18, approved by 1 tor of the RF date Indications of oxidative deterioration: fat phase acidity Toxic elements:	ditions No. 10, appr Sanitary Inspector Resolution No. 71 of ed 28.06.2010)	oved by of the RF dated Chief State  0 Kettstofer
Resolution No. 16.07.2008, No. Sanitary Inspect	18, approved by 1 tor of the RF date Indications of oxidative deterioration: fat phase acidity	ditions No. 10, appr Sanitary Inspector Resolution No. 71 of ed 28.06.2010)	oved by of the RF dated Chief State  O Kettstofer chocolate
Resolution No. 16.07.2008, No. Sanitary Inspect	13 of Chief State 18, approved by 1 tor of the RF date Indications of oxidative deterioration: fat phase acidity Toxic elements:	ditions No. 10, appr Sanitary Inspector Resolution No. 71 of ed 28.06.2010)	oved by of the RF dated Chief State  0 Kettstofer
Resolution No. 16.07.2008, No. Sanitary Inspect	13 of Chief State 18, approved by 1 tor of the RF date Indications of oxidative deterioration: fat phase acidity Toxic elements: lead	ditions No. 10, appr Sanitary Inspector Resolution No. 71 of ed 28.06.2010)	oved by of the RF dated Chief State  0 Kettstofer chocolate
Resolution No. 16.07.2008, No. Sanitary Inspect	13 of Chief State 18, approved by 1 tor of the RF date Indications of oxidative deterioration: fat phase acidity Toxic elements:	ditions No. 10, appr Sanitary Inspector Resolution No. 71 of ed 28.06.2010)	oved by of the RF dated Chief State  O Kettstofer chocolate
Resolution No. 16.07.2008, No. Sanitary Inspect	13 of Chief State 18, approved by 1 tor of the RF date Indications of oxidative deterioration: fat phase acidity Toxic elements: lead	ditions No. 10, appr Sanitary Inspector Resolution No. 71 of ed 28.06.2010)	oved by of the RF dated Chief State  O Kettstofer chocolate
Resolution No. 16.07.2008, No. Sanitary Inspect	13 of Chief State 18, approved by 1 tor of the RF date Indications of oxidative deterioration: fat phase acidity Toxic elements: lead arsenic	ditions No. 10, appr Sanitary Inspector Resolution No. 71 of ed 28.06.2010)	oved by of the RF dated Chief State  O Kettstofer chocolate
Resolution No. 16.07.2008, No. Sanitary Inspect	13 of Chief State 18, approved by 18 tor of the RF date Indications of oxidative deterioration: fat phase acidity Toxic elements: lead arsenic cadmium	ditions No. 10, appr Sanitary Inspector Resolution No. 71 of ed 28.06.2010)  2.5  0.1  0.3  0.1  0.03  0.2	oved by of the RF dated Chief State
Resolution No. 16.07.2008, No. Sanitary Inspect	13 of Chief State 18, approved by 1 tor of the RF date Indications of oxidative deterioration: fat phase acidity Toxic elements: lead arsenic	ditions No. 10, appr Sanitary Inspector Resolution No. 71 of ed 28.06.2010)  2.5  0.1  0.3  0.1  0.03	oved by of the RF dated Chief State  O Kettstofer  chocolate butter  chocolate
Resolution No. 16.07.2008, No. Sanitary Inspect	13 of Chief State 18, approved by 18 tor of the RF date Indications of oxidative deterioration: fat phase acidity Toxic elements: lead arsenic cadmium	ditions No. 10, appr Sanitary Inspector Resolution No. 71 of ed 28.06.2010)  2.5  0.1  0.3  0.1  0.03  0.2	oved by of the RF dated Chief State  O Kettstofer  chocolate butter  chocolate
Resolution No. 16.07.2008, No. Sanitary Inspect	13 of Chief State 18, approved by 18 tor of the RF date Indications of oxidative deterioration: fat phase acidity Toxic elements: lead arsenic cadmium mercury copper	ditions No. 10, appr Sanitary Inspector Resolution No. 71 of ed 28.06.2010)  2.5  0.1  0.3  0.1  0.03  0.2  0.03  0.4	oved by of the RF dated Chief State  0 Kettstofer  chocolate butter  chocolate butter  for storage delivered
Resolution No. 16.07.2008, No. Sanitary Inspect	13 of Chief State 18, approved by 18 tor of the RF date Indications of oxidative deterioration: fat phase acidity Toxic elements: lead arsenic cadmium mercury	ditions No. 10, appr Sanitary Inspector Resolution No. 71 of ed 28.06.2010)  2.5  0.1  0.3  0.1  0.03  0.2  0.03	oved by of the RF dated Chief State  0 Kettstofer  chocolate butter  chocolate butter  for storage

laevomycetin (chloramphenicol)	0.01	Expiring on 01.01.2012.
	0.0003	Shall become effective since 01.01.2012.
tetracycline group	0.01	
penicillins	0.004	
streptomycin	0.2	

(as amended by Amendments and Additions No. 22, approved by Resolution No. 177 of Chief State Sanitary Inspector of the RF dated 27.12.2010, Amendment No. 24, approved by Resolution No. 79 of Chief State Sanitary Inspector of the RF dated 01.06.2011)

Pesticides <*>: hexachlorocycloh exane	1.25	in terms of fat
(alpha-, beta-, gamma-isomers)		
DDT and its metabolites	1.0	the same
Radionuclides:		
caesium-137 strontium-90	200 60	Bq/kg the same
Dioxins <***>:	0.000003	(in terms of fat)

(as amended by Amendments and Additions No. 10, approved by Resolution No. 43 of Chief State Sanitary Inspector of the RF dated 16.07.2008)

	Micro	obiolog	gical	indica	tors:		
Index, group of products	CFU/g, not more	(g) in indica allowe Colifo	which tor is d S. aureu s	h the s not	not more than	Yeast, CFU/g not more than	Notes
1	2	3	4	5	6	7	8
1.7.6.1. Vologda butter and branded sorts butter	1 x 1E4	0.1	1.0	25	5 0 in	total	L. monocytogen es in 25 g are not allowed
1.7.6.2. Sweet and acid cream cow butter, including salted, with the mass fraction of fat 60% and more	1 x 1E5 <*>	0.01	0.1	25	10 0 in	total	The same<*> in acid cream cow butter norms are not established
1.7.6.3. Chocolate butter	1 x 1E5	0.01	0.1	25	100	100	L. monocytogen es in 25 g are not allowed
1.7.6.4. Cow milk butter (for sandwiches) with the mass fraction of fat from 30 to 59%	2 x 1E5	0.001	0.01	25	100	100	L. monocytogen es in 25 g are not allowed
(as amended by Ame Resolution No. 41 15.04.2003)							
1.7.6.5. Melted cow butter	1 x 1E3	1.0	-	25	200	-	

Index, group of	Indicators	Permissible levels,	Notes
products	11101000010		110000
1	2	mg/kg, not more	4
1 7 7	Z	3	4
1.7.7. Fatty materials based	Indications of		
on combination	deterioration:	2	0
of animal fats,	_	2.5	0 Kettstofer
_	acidity	1.0	mmol of active
fat, and	peroxide value	10	oxygen / kg in
vegetable fats			a fat phase
	Toxic elements:		
	lead	0.1	with a
			chocolate
		0.3	component
	arsenic	0.1	
	cadmium	0.03	
		0.2	with a
			chocolate
			component
	mercury	0.03	
	copper	0.4	for storage
			delivered
	iron	1.5	the same
	nickel	0.7	combined oils
			with
			hydrogenated
			fat
	Mycotoxins:	0.0005	
	aflatoxin M1		
	Antibiotics <*>:		
	laevomycetin	0.01	Expiring on
	(chloramphenicol		01.01.2012.
	(CIIIOI ampiiciiIcoi		01.01.2012.
	/	0.0003	Shall become
		0.0003	effective since
	h = h = = = 3	0.01	01.01.2012.
	tetracycline	0.01	
	group	0.00	
	•	0.02	 
		, approved by Resolut	
Chief State Sans		f the RF dated 01.06	
	Pesticides <*>:	1.25	in terms of fat
	hexachlorocycloh		
	exane		
	(alpha-, beta-,		
	gamma-isomers)		
	DDT and its	1.0	the same
	metabolites		
	Radionuclides:		
		100	Bq/kg
		80	the same
1	1	1	1

Dioxins <***>:	0.000002	Compound animal fats (in terms of fat)

(as amended by Amendments and Additions No. 2, approved by Resolution No. 41, of Chief State Sanitary Inspector of the RF dated 15.04.2003, No. 10, approved by Resolution No. 43 of Chief State Sanitary Inspector of the RF dated 16.07.2008)

Microbiological indicators:

	1				indicat		
	QMAFAnM				Moulds,		Notes
products	,	(g) in			CFU/g	CFU/g	
	CFU/g,	indica	tor is	s not	not	not	
	not	allowe	d		more	more	
	more	Colifo	s.	Pathog	than	than	
	than	rm		enic,			
		bacter		includ			
		ia		ing			
		(colif					
		orms)		salmon			
		- ,		ella			
				0114			
1	2	3	4	5	6	7	8
1.7.7.1. Fatty	1 x 1E5	0.01	0.1	25	100	100	L.
products based on							monocytogen
combination of							es in 25 g
animal fats,							are not
including milk							allowed
fat, and							allowed
vegetable fats							
with the mass							
fraction of fat							
60% and more							
60% and more							
1.7.7.2. Fatty		0.01	0.01	25	200 in		the same
products based on			0.01	2 0	total		ciic baine
combination of					COCUI		
animal fats,							
including milk							
fat, and							
vegetable fats							
with the mass							
fraction of fat							
30-59%							

Index, group of	Indicators	Permissible levels,	Notes
products		mg/kg, not more	
1	2	3	4
1.7.8. Edible	Indications of		
tallow of fish	oxidative		
and marine	deterioration:		
mammals; fat of			
marine mammals	acid value	4.0	mg potassium hydroxide/g
and fish fat as	peroxide value	10.0	mmol
dietary	F 0 = 0 11 = 0 1 0 1 0 1 0 1		of active
(curative and			oxygen/kg
prophylactic) food products	Toxic elements:		
looa produces	TOMES CICMONOS.		
	lead	1.0	
	arsenic	1.0	
	cadmium	0.2	
	mercury	0.3	
	Pesticides <*>:	0.1	
	hexachlorocycloh		
	exane		
	(alpha-, beta-, gamma-isomers)		
	ganina-isomeis)		
	DDT and its	0.2	
	metabolites		
	Polychlorinated	3.0	
	biphenyls		
	Radionuclides:	60	Bq/kg
	caesium-137		I— -1, -19
	Strontium-90	80	the same
	Dioxins <***>:	according to Clause 1.3.6	(in terms of fat)
(as amended by A	 Amendments and Ado	l ditions No. 2, approv	I ved by

(as amended by Amendments and Additions No. 2, approved by Resolution No. 41 of Chief State Sanitary Inspector of the RF dated 15.04.2003, No. 10, approved by Resolution No. 43 of Chief State Sanitary Inspector of the RF dated 16.07.2008)

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<*> It is also required to control residual quantities of the pesticides used for production of food raw material (see Clauses 3.12, 3.13).

<*> It is also required to control residual quantities of the antibiotics used for production of food raw material (see Clause 3.15).

⁽the note was amended by Amendments and Additions No. 22, approved by Resolution No. 177 of Chief State Sanitary Inspector of the RF dated 27.12.2010)

Note:

<****> the maximum permissible level shall not be applied to products containing less than 1% of fat;

⁻ hereinafter dioxins shall be understood to represent the sum of polychlorinated dibenzo-p-dioxin (PCDD) and polychlorinated dibenzofurans (PCDF), expressed as a sum of toxic equivalency factors (TEF) according to the WHO scale (WHO-TEFs):

TOXIC EQUIVALENCY FACTORS (according to WHO scale) <*>

TOXIC EQUIVALENCY FACTORS	(according to write scale) < >
Congener	TEF Value
Dibenzo-p-dioxin (PCDD)	
2,3,7,8-Tetrachlorodibenzodioxin	1
1,2,3,7,8-Pentachlorodibenzodioxin	1
1,2,3,4,7,8-Hexachlorodibenzodioxin	0.1
1,2,3,4,7,8-Hexachlorodibenzodioxin	0.1
1,2,3,7,8,9-Hexachlorodibenzodioxin	0.1
1,2,3,4,6,7,8-Heptachlorodibenzodioxin	0.01
Octachlorodibenzodioxin	0.0001
Dibenzofurans (PCDF)	
2,3,7,8-Tetrachlorodibenzofuran	0.1
1,2,3,7,8-Pentachlorodibenzofuran	0.05
2,3,4,7,8-Pentachlorodibenzofuran	0.5
1,2,3,4,7,8-Hexachlorodibenzofuran	0.1
1,2,3,6,7,8-Hexachlorodibenzofuran	0.1
1,2,3,7,8,9-Hexachlorodibenzofuran	0.1
2,3,4,6,7,8-Hexachlorodibenzofuran	0.1
1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.01
1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.01
Oktachlorodibenzofuran	0.0001

(the note was introduced by Amendments and Additions No. 10, approved by Resolution No. 43 of Chief State Sanitary Inspector of the RF dated 16.07.2008)

⁻⁻⁻⁻⁻

<*>1 pg TEF means that this is a mixture of PCDD and PCDF which corresponds to 1 pg of 2,3,7,8-Tetrachlorodibenzodioxin (TCDD).

1.8. Beverages

		1.8. Beverages	
Index, group of	Indicators	Permissible levels,	Note
products		mg/kg, not more	
01044000		mg/ ng/ noe mere	
1			
L	2	3	4
1.8.1.	Requirements for	bottled waters are	established in
Bottled water	=	SanPiN "Drinking Wate	
(carbonated and		Quality of Packaged	
noncarbonated)	Control" (registe	ered with the Minist	ry of Justice on
<*>	26.04.2002 Russia	a, registration numbe	er 3415)
		, ., .,	,
	olution No. 41 of	Amendments and Addit Chief State Sanitar	
1 0 0 11 11 11 11	m 1 +		
1.8.2. Mineral	Toxic elements:		
natural table,			
curative-table,	2 1	0 1	
curative	lead	0.1	
	cadmium	0.01	
drinking waters	mercury	0.005	
<**>			
	Radionuclides		
	<* *>		
	Specific total		
	alpha activity		
	alpha activity	0.2	Bq/kg
	Specific total	1.0	Bq/kg
	beta activity		_ 4,9
	_		
	Microbiological		
	_		
	indicators:		
	QMAFAnM,	100	CFU/cm3, not
			more than
	Coliform	100	volume (cm3),
		100	
	bacteria		in which the
	(coliforms)		indicator is
			not allowed; a
			1
			three-fold
			research per
			100 cm3 shall
			be conducted
		100	
	Coliform	100	the same
	bacteria		
	(coliforms)		
	fecal		
	Pseudomonas	100	the same
	aeruginosa		
(se smonded by	_	approved by Possin+	ion No. 6
		approved by Resolut	
of Chief State S	Sanitary Inspecto:	r of the RF dated 27	.01.2010)
	het a land		
.8.2.1.	Microbiological	inaicators:	

 Coliform bacteria (coliforms)	in 100 g are not allowed		
pathogenic	in 100 g are not allowed		
I	ı	l	

	Daaudamanaa	in 100 m and not	<u> </u>
	Pseudomonas aeruginosa	in 100 g are not allowed	
	aeruginosa	allowed	
	yeast, CFU/cm3	not more than 10	
	mould, CFU/cm3	not more than 10	
	olution No. 71 of	 y Amendments and Add:   Chief State Sanitary	
1.8.3. Juices, beverages, vegetable, fruit, berry and and grain preserved concentrates	See Section "Frui 1.6.5	it and Vegetable Prod	ducts", Clause
1.8.4. Milk- containing drinks	See Section "Milland 1.2.4	and Milk Products",	Clause 1.2.1
1.8.5.	lead	0.3	
Alcoholic free	arsenic	0.1	
beverages,	cadmium	0.03	
including juice	mercury	0.005	
containing and artificially	Mycotoxins:		
mineralized drinks	Patuline	0.05	juice containing: apple, tomato, sea-buckthorn
	Caffeine	150	for caffeine containing drinks
		400	for caffeine containing specialized drinks
	Quinine	85	for quinine containing drinks
	General mineralization	2.0	g/l, not more than - artificially mineralized drinks
		ditions No. 18, appro Sanitary Inspector (	=

T 1	0117 = -	-		I	Notes -
products	, CFU/cm3 , not more	(cm3, g which thindicate allowed	) in he or is not	Yeast and moulds (in total), CFU/cm3(g), not more than	Notes
		m bacteri	Pathogeni c, including salmonell a		
1	2	3	4	5	6
1.8.5.1. Beverages, alcoholic free unpasteurized and without preservative with keeping time less than 30 days	30	333	25	100	
1.8.5.2. Beverages, alcoholic free unpasteurized and without preservative with keeping time 30 days and more:					
- based on sugars		100	100	15 <*>	<*> CFU/100 cm3, not more than
- based on sweeteners	100 <*>	100	100		number of mesophilic aerobic microorgan sms, CFU/100 cm3, no more than <*>
- juice containing:		100	100	40 <*>	volume (cm3), in which the indicator is not

(as amended by Amendments and Additions No. 2, approved by Resolution No. 41 of Chief State Sanitary Inspector of the RF dated 15.04.2003)

1.8.5.3. Concentrates (liquid, paste- like), mixtures (powder-like, tableted, granulated and other) for alcoholic free	5 x 1E4 <*>	1.0	25	10 <**>	<pre>&lt;*&gt; except concentrate s, containing sodium bicarbonate &lt;**&gt; volume (cm3), mass (g), in which the indicator is</pre>
drinks in a consumer packaging					not allowed
1.8.5.4. Mixtures of dry vegetable raw materials for making of hot alcoholic free drinks	5 x 1E5	1.0		100 - yeast 100 - moulds	
1.8.5.5. Non-pasteurized syrups		1.0	25	50 <*>	<*> CFU/10 cm3, not more than
1.8.5.6. Pasteurized syrups, hot filling		1.0	25	40 <*>	<pre>&lt;*&gt; volume (cm3), in which the indicator is not allowed</pre>
1.8.5.7. Aseptically packaged concentrates	sterili accorda	ty for once with tion "Fi	canned foo n Annex 8	ts for industri d of group "D" to these Sanita egetable Produc	in ary Rules

Index, group of products	Indicators	Permissible levels, mg/kg, not more than	Note
1	2	3	4
1.8.6. Fermented beverages	Toxic elements: lead arsenic cadmium mercury	0.3 0.1 0.03 0.005	
		ditions No. 18, appro Sanitary Inspector o	-

Microbiological indicators:
(as amended by Amendments and Additions No. 2, approved by Resolution No. 41 of Chief State Sanitary Inspector of the RF dated 15.04.2003)

		15.0	4.2003)		
Index, group of products	,	g) in w	hich the	cs (cm3, e ot allowed	Notes
	III	m bacteri a (colifo		Yeast and moulds	
1	2	3	4	5	6
1.8.6.1. Unfiltered kvases					
- in kegs - draught	_	3.0 1.0	25 25	_	
Kvases filtered unpasteurized:					
- in polimer bottles (PET)	-	10.0	25	_	
<ul><li>in kegs</li><li>draught</li></ul>	-	3.0 1.0	25 25	_	
Kvasses filtered pasteurized	10	10.0	25	100	
1.8.6.2. Fermented beverages low-alcohol unfiltered: - in kegs - draught	-	3.0	25 25	-	
1.8.6.3.					
Low-alcohol filtered unpasteurized fermented beverages: - in polymer bottles (PET and others)		10.0	25		
- in kegs - draught	- -	3.0 1.0	25 25	_ _	

1.8.6.4.	10	10	25	100	
Low-alcohol					
filtered					
pasteurized					
fermented					
beverages					

Index, group of	Indicators	Permissible levels,	Note
products		mg/kg, not more	
7			
1	2	3	4
1.8.7.	Toxic elements:		
Beer, vine,			
vodka,	lead	0.3	
low-alcohol and	arsenic	0.2	
other alcoholic beverages	cadmium	0.03	
Deverages	mercury	0.005	
	Methanol	0.05	%, not more than (volume fraction in terms of anhydrous alcohol) - vodkas, food ethyl alcohols g/dm3, not more than
		1.0	(cognac, cognac alcohols)
	Quinine	300	cinchona containing alcohol drinks
	Nitrosamines: sum of N- Nitrosodimethyla mine and N- Nitrosodiethylam ine	0.003	beer
		ditions No. 18, appro Sanitary Inspector o	

28.06.2010)

Microbiological indicators:  (as amended by Amendments and Additions No. 2, approved by Resolution No. 41 of Chief State Sanitary Inspector of the RF dated 15.04.2003)					
Index, group of products	CFU/cm3 , not more than	The vol product which t not all Colifor m bacteri a (colifo	ume or m s (cm3, he indic owed	g) in cator is Yeast and moulds	Notes
1.8.7.1. Draught beer	_	1.0	25	_	
1.8.7.2. Unpasteurized beer: - in kegs - in bottles		3.0	25 25	_	
Pasteurized and sterilized beer	500	10.0	25	40	

<*> Bottled water shall be manufactured from water complying with the hygienic safety requirements for centralized drinking water supply systems.

(the note was amended by Amendment No. 16, approved by Resolution No. 6 of Chief State Sanitary Inspector of the RF dated 27.01.2010)

<**> Analysis of radionuclides content shall be carried out in case of exceeding the total activity parameters in accordance with Radiation Safety Standards-99/2009.

## 1.9. Other Products

		1.9. Other Products	
Index, group of	Indicators	Permissible levels,	Note
products		mg/kg, not more	
products			
		than	
1	2	3	4
1.9.1.	Toxic elements:		
Isolates,			
concentrates,			
	lead	1.0	
hydrolysates	arsenic	1.0	
and textured			
plant proteins;	cadmium	0.2	
food oil meal	mercury	0.03	
and flour with	Mycotoxins:	0.005	
different fat	aflatoxin B1		
content from			
		0 0	
legume seeds,	dezoxynivalenol	0.7	from wheat
oilseeds and			
seeds of non-		1.0	from barley
		1 0	
conventional	zearalenone	1.0	from wheat,
crops			barley,
_			maize
			maize
	Pesticides <*>:		
	hexachlorocycloh	0.5	from cereals,
			·
	exane		maize, legumes
	(alpha-, beta-,		(except for
	gamma-isomers)		soybean),
	gamma 150me157		_
			sunflower and
			peanut
		0.4	from flax,
			·
			mustard,
			rapeseed
		0.2	from soybean,
		0.2	
			cotton plant
	DDT and its	0.15	form sunflower,
	metabolites		peanut
	metabolites		peanuc
		0.1	from flax,
			· ·
			mustard,
			rapeseed
		0.05	from legumes,
			-
			cotton plant,
			maize
		0.02	from cereals
	Oligosaccharides	2.0	%, not more for
	_		
			soy, protein,
			baby food and
			dietary
			products
			Products
		0 5	1.1
	Trypsin	0.5	the same
	inhibitor		
	Melamine	not allowed	< 1 mg/kg
I	1	I	1

(as amended by Amendments and Additions No. 2, approved by Resolution No. 41 of Chief State Sanitary Inspector of the RF dated 15.04.2003, Amendments No. 11, approved by Resolution No. 56 of Chief State Sanitary Inspector of the RF dated 01.10.2008, Amendments and Additions No. 18, approved by Resolution No. 71 of Chief State Sanitary Inspector of the RF dated 28.06.2010)

Microbiological indicators:							
Index, group of products	QMAFAnM , CFU/g,	Mass of products (g) in which the indicator is not allowed				Note	
	not more than	Colifor m bacteri a (colifo rms)	aureus	Pathogeni c, including salmonell a	e- reducin		
1	2	3	4	5	6	7	
1.9.1.1. Isolates, plant protein concentrates, soybean flour	5.0 x 1E4 <*>	0.1	0.1	25		yeast and moulds - 100 CFU/g, not more than; <*> 5 x 1E3 - for baby food	
1.9.1.2. Protein enzymatic hydrolysate from soybean raw material	1 x 1E3	1.0	-	25	-	yeast and moulds in 1 g are not allowed	
1.9.1.3. Protein sunflower food concentrate	5 x 1E4	0.1	_	25		moulds - 10 CFU/g, not more than	
1.9.1.4. Soybean protein concentrate, textured soy flour	2.5 x 1E4	0.1	0.1	25	0.1	yeast and moulds - 100 CFU/g, not more than	

(introduced by Amendments and Additions No. 2, approved by Resolution No. 41 of Chief State Sanitary Inspector of the RF dated 15.04.2003)

Index, group of	Indicators	Permissible levels,	Note
products	Inaroacorb	mg/kg, not more	
produces		than	
1.9.2.	Toxic elements:	0.3	
Milk whey	lead		
protein			
concentrates,	arsenic	1.0	
casein,	cadmium	0.2	
caseinates,	mercury	0.03	
milk protein	mercury		
hydrolysates	Mycotoxins:	0.0005	
	aflatoxin M1		
	Pesticides <*>:	1.25	in terms of fat
	hexachlorocycloh		
	exane		
	(alpha-, beta-,		
	gamma-isomers)		
	DDT and its	1.0	the same
	metabolites		
	 Melamine	not allowed	< 1 mg/kg
	Meramine	liot allowed	\ I mg/kg
	Antibiotics <*>:		
	Ancibiotics ( ).		
	laevomycetin	0.01	Expiring on
	(chloramphenicol		01.01.2012.
	)		01.01.2012.
	/		
		0.0003	Shall become
			effective since
			01.01.2012.
	tetracycline	0.01	
	group		
	_		
	penicillins	0.004	
	streptomycin	0.2	
/or amanded by	l Amandmanta Na 11	ammariad by Dagalut	   N EC -E

(as amended by Amendments No.11, approved by Resolution No. 56 of Chief State Sanitary Inspector of the RF dated 01.10.2008, No. 18, approved by Resolution No. 71 of Chief State Sanitary Inspector of the RF dated 28.06.2010, No. 22, approved by Resolution No. 177 of Chief State Sanitary Inspector of the RF dated 27.12.2010, Amendment No. 24, approved by Resolution No. 79 of Chief State Sanitary Inspector of the RF dated 01.06.2011)

Microbiological indicators:					
Index, group of products	CFU/g, not more than	(g) in indicat allowed Colifor m bacteri	Pathogeni c, including salmonell		
1	2	3	4	5	
1.9.2.1. Food caseinates	5 x 1E4	0.1	25	sulfite-reducing clostridia in 0.01 g are not allowed	
1.9.2.3. Whey protein concentrate	5 x 1E4	1.0	25	S. aureus in 0.1 g are not allowed	
1.9.2.4. Albumin-casein concentrate	2.5 x 1E3	1.0	25	S. aureus in 1.0 g are not allowed	

Index, group of	Indicators	Permissible levels,	Note
products		mg/kg, not more	
•		than	
1.9.3. Blood protein	Toxic elements:		
concentrates (dry blood	lead	1.0	
plasma	arsenic cadmium	1.0	
concentrate, whey protein,	mercury	0.03	
food albumin)	Antibiotics <*>:		
	laevomycetin (chloramphenicol	0.01	Expiring on 01.01.2012.
		0.0003	Shall become effective since 01.01.2012.
	tetracycline group	0.01	
	bacitracin	0.02	

(as amended by Amendments and Additions No. 18, approved by Resolution No. 71 of Chief State Sanitary Inspector of the RF dated 28.06.2010, No. 22, approved by Resolution No. 177 of Chief State Sanitary Inspector of the RF dated 27.12.2010, Amendment No. 24, approved by Resolution No. 79 of Chief State Sanitary Inspector of the RF dated 01.06.2011)

Microbiological indicators:

Index, group of products	Indicators	Permissible levels, mg/kg, not more	Note
products		than	
1	2	3	4
1.9.4.	Toxic elements:		
Germs of seeds			
of cereals,	lead	1.0	
grain legumes	arsenic	0.2	
and other	cadmium	0.1	
crops, flakes	mercury	0.03	
and oil meal			
from them, bran		0.005	
	aflatoxin B1		
	dezoxynivalenol	0.7	from wheat
	_		
		1.0	from barley
	zearalenone	1.0	from wheat,
			barley,
			maize
	Pesticides <*>:	0.5	
	hexachlorocycloh		
	exane		
	(alpha-, beta-,		
	gamma-isomers)		
	DDE 1 '.	0.02	
	DDT and its	0.02	
	metabolites		
	Oligosaccharides	according to Clause	
		1.9.1	
	Trypsin	the same	
	inhibitor		
	Harmful		
	contaminants:		
	Pest	not allowed	
	contamination		
	and infestation		
	of grain		
	(insects, mites)		

(as amended by Amendments and Additions No. 2, approved by Resolution No. 41 of Chief State Sanitary Inspector of the RF dated 15.04.2003, No. 18, approved by Resolution No. 71 of Chief State Sanitary Inspector of the RF dated 28.06.2010)

Microbiological indicators:					
Index, group of products	CFU/g, not more than	(g) in indicat allowed Colifor m bacteri	Pathogeni c, including salmonell	CFU in 1 g	Note
1.9.4.1. Food cereal bran	5 x 1E4	0.1	25	100	heat-treated
1.9.4.2. Bran dietary fibers; oil meal from vegetables, fruit residues	5 x 1E4	0.1	25	50	

Index, group of	Indicators	Permissible levels,	Not.e
products	11101000010	mg/kg, not more	1.000
produces		than	
1	2	3	4
		3	1
1.9.5.	Toxic elements:		
Protein			
products from	lead	0.2	in terms of dry
seeds of	cadmium	0.1	substance
cereals, grain	arsenic	0.2	
legumes and	mercury	0.03	
other crops: -	_		
beverages,	Mycotoxins:	0.005	
including	aflatoxin B1		
fermented			
beverages; tofu	dezoxynivalenol	0.7	from wheat
and okara		1.0	from barley
	zearalenone	1.0	from wheat,
			barley,
			maize
	Pesticides <*>:	0.1	in towns of days
		0.1	in terms of dry
	hexachlorocycloh		substance
	exane		
	(alpha-, beta-,		
	gamma-isomers)		
	DDT and its		
	metabolites	0.01 are not	
	mercury organic		
	pesticides	allowed	
	Oligosaccharides	according to Clause 5.9.1	
	m '		
	Trypsin	according to Clause 5.9.1	
	inhibitor	J. 9. 1	
		<u> </u>	

- concentrated, condensed and powder beverages, tofu and okara powder	lead	0.2 0.1 0.2 0.03	in terms of dry substance
	Mycotoxins: aflatoxin B1	0.005	
	dezoxynivalenol	0.7	from wheat from barley
	zearalenone	1.0	from wheat, barley, maize
	Pesticides <*>: hexachlorocycloh exane	0.1	in terms of dry substance
	(alpha-, beta-, gamma-isomers)		
	DDT and its - metabolites. mercury organic pesticides	not allowed	

(as amended by Amendments and Additions No. 2, approved by Resolution No. 41 of Chief State Sanitary Inspector of the RF dated 15.04.2003, No. 18, approved by Resolution No. 71 of Chief State Sanitary Inspector of the RF dated 28.06.2010)

	Micro	obiologi	cal in	dicators:		
Index, group of products	QMAFAnM, CFU/g, not more than	the ind Colifor	icator S. aureus	Pathogeni c, including salmonell	B. cereus	Note
1	2	3	4	5	6	7
1.9.5.1. Beverages from soybean						
- soybean beverages of aseptic bottling	sterili	ty for d	cans of	ments for group "A tary Rule	" in acc	rial cordance with
- soybean beverages, cocktails, chilled and frozen desserts	5 x 1E4	0.1 <*>		25	0.1	<pre>&lt;*&gt; 1.0 - with the shelf life of more than 72 hours; moulds - 10, CFU/g, not more than</pre>
- fermented soybean beverages		0.1 <*>	1.0	25	0.1	<pre>&lt;*&gt; the same; moulds - 10, yeast - 10, CFU/g, not more than</pre>
(as amended by Ame Resolution No. 41 15.04.2003) 1.9.5.2.						
Protein soybean products (tofu)	5 x 1E4 <**>	0.1 <*>	1.0	25	0.1	<pre>&lt;*&gt; the same; &lt;**&gt; with the use of starter cultures - norms are not established; moulds - 10 and yeast - 50, CFU/g, not more than</pre>
- okara	5 x 1E4	0.01	1.0	25	0.1	moulds - 10 CFU/g, not more than

Index, group of	Indicators	Permissible levels,	Note
products		mg/kg, not more	
		than	
1	2	3	4
1 0 6			
1.9.6.	Toxic elements:		
Thickeners,			
stabilizers,	lead	2.0	carrageenan,
gelling agents			gum arabic,
(pectin, agar,			gums:
alginate,			carob gum,
carrageenan,			guar gum,
gums, etc.)			xanthan gum,
			gellan gum,
			konjak flour
		5.0	agar, alginates
		100	
		10.0	pectin, gums:
			gum ghatti,
			tara gum,
			karaya gum
	arsenic	3.0	pectin, agar,
			alginates,
			carrageenan,
			gums:
			gum ghatti,
			tara gum,
			karaya gum, gellan gum,
			konjak flour
	cadmium	1.0	carrageenan,
	mercury	1.0	the same
	copper	50	pectin
	zinc	25	pectin
	Pentachloropheno	are not allowed	guar gum, carob
	1:	(less than 0.001	gum, tragacanth
		mg/kg)	gum, karaya
			gum, tara gum,
			gum ghatti
(as amended by A	 Amendments and Ado	 ditions No. 2, appro	l ved bv

(as amended by Amendments and Additions No. 2, approved by Resolution No. 41 of Chief State Sanitary Inspector of the RF dated 15.04.2003, No. 10, approved by Resolution No. 43 of Chief State Sanitary Inspector of the RF dated 16.07.2008, No. 18, approved by Resolution No. 71 of Chief State Sanitary Inspector of the RF dated 28.06.2010)

	Microbiological indicators:					
Index, group of products	CFU/g, not more than	(g) in sindicate allowed Colifor m bacteri	Pathogeni c, including salmonell	Moulds, CFU in 1 g	Note	
1	2	3	4	5	6	
1.9.6.1. Pectin:						
- for baby food and dietary products	5 x 1E2	1.0	25		yeast - 50 CFU/g, not more than;	
- for mass-consumption products	5 x 1E4	0.1	25	100	yeast - 100 CFU/g, not more than	
1.9.6.2. Edible agar, agaroid,furcellar ine, food sodium alginate	5 x 1E4	1.0	25	100		
1.9.6.3. Carrageenan	5 x 1E3	1.0	25	100		
1.9.6.4. Thickeners and stabilizers based on gums (guar and xanthan gums, etc.)	5 x 1E3	1.0	25	500 <*>	total amount of yeast and mould	

Index, group of products		Permissible levels, mg/kg, not more than	Note
1	2	3	4
1.9.7. Gelatin, connective tissue protein- concentrates	Toxic elements: lead arsenic cadmium mercury	2.0 1.0 0.1 0.05	
	Pesticides <*>: hexachlorocycloh exane (alpha-, beta-, gamma-isomers)	0.1	
	DDT and its metabolites	0.1	

Microbiological indicators:				
Index, group of products	CFU/g, not more	Mass of products Note  (g) in which the indicator is not allowed Colifor Pathogeni m c,		
1.9.7.1.		bacteri	including salmonell	
Edible gelatin:	1 x 1E4	1.0	25	
- for mass-consumption products	1 x 1E5	0.01	25	

Index, group of products		Permissible levels, mg/kg, not more than	Note
1	2	3	4
1.9.8. Starches, treacle and their derived products	Toxic elements: lead arsenic cadmium mercury	0.5 0.5 0.1 0.02	
	Pesticides <*>: hexachlorocycloh exane (alpha-, beta-, gamma-isomers)	0.5	maize potato
	metabolites.		maize potato

	Micro	obiologi	cal indicate	ators:		
Index, group of products	CFU/g, not more than	(g) in indicat allowed Colifor m bacteri	Pathogeni c, including salmonell	CFU/g not more than	Moulds, CFU/g, not more than	Note
1.9.8.1. Dry starch	2 1 x 1E5	0.01	25	500	6 500	7
(potato, maize, pea)						
1.9.8.2. Amylopectin swelling starch, extrusion starch	1 x 1E4	0.1	25	250	250	
1.9.8.3. Low-sugar treacle	1 x 1E4	1.0	25	50	100	
1.9.8.4. Maltitol, maltodextrins	5 x 1E4	1.0	25	50	100	

1.9.8.5. Lactulose concentrate	5 x 1E3	1.0	50	50		s. aureus in 1.0 g are not allowed
1.9.8.6. Glucose-fructose syrup	1 x 1E5	1.0	25	50	100	
1.9.8.7. Glucose granules with juice additives	1 x 1E4	1.0	25	50	100	

Index, group of	Indicators	Permissible levels,	Note
products		mg/kg, not more	
		than	
1.9.9.	Toxic elements:		
Food yeast,			
protophyte	lead	1.0	
	arsenic	0.2	
starter	cadmium	0.2	
	mercury	0.03	
cultures			

Micro	obiologi	cal in	dicators:		
Index, group of products	dex, group of products Mass of products (g), in which the indicator is not allowed				
	bacteri a (colifo	aureus	Pathogeni c, including salmonell a		
1	rms) 2	3	4	5	
1.9.9.1. Bakery yeast powder	0.01	0.1	25		
1.9.9.2. Compressed bakery yeast	0.001	0.1	25	moulds - 100 CFU/g, not more than	
1.9.9.3. Lyophilized starter cultures (for production of fermented meat)	1.0	1.0	10	sulfite-reducing clostridia in 1 g are not allowed; quantity of microorganisms of technological microflora - not less than 1E9 - for cultures, 1E10 CFU/ cm3 - for concentrates; yeast - 10 and moulds - 10 CFU/g, not more than	
1.9.9.5. Protophyte biomass, yeast biomass for industrial processing	1.0	1.0		QMAFAnM - 1 x 1E4 CFU/g, not more than; yeast - 50 and moulds - 50 CFU/g, not more than; presence of living cells of producers in 1 g is not allowed	

		1	1
Index, group of	Indicators	Permissible levels,	Note
products		mg/kg, not more	
		than	
1	2	3	4
1.9.10. Dry	Toxic elements:		
food broth			
	lead	1.0	
	arsenic	1.0	
	cadmium	0.2	
	mercury	0.1	
	Pesticides:	0.1	in terms
	hexachlorocycloh		of original
	exane		product
	(alpha-, beta-,		
	gamma-isomers)		
	DDT and its	0.1	
	metabolites	0.1	
	metabolites		
	Microbiological	according to Clause	
	indicators	1.9.14.7	
_		ditions No. 2, appro	_
		Sanitary Inspector	
		Resolution No. 71 of	Chief State
Sanitary Inspect	tor of the RF date	ed 28.06.2010)	
1.9.11.	Toxic elements:		
Xylitol,			
sorbitol,	11	1 0	
mannital ata	lead	1.0	
sugar alcohols	arsenic	2.0	
	cadmium	0.05	
	mercury	0.01	
	nickel	2.0	
		ditions No. 18, appro	
	71 of Chief State	Sanitary Inspector	of the RF dated
28.06.2010)			

	Micro	obiologi	cal indic	ators:	
Index, group of products	CFU/g, not more than	(g) in indicat allowed Colifor m bacteri a (coliforms)	Pathogeni c, including salmonell	CFU/g not more than	Note
1.9.11.1.  Xylitol, sorbitol, mannitol, etc. sugar alcohols	1 x 1E4	1.0	25	1 x 1E2	

Index, group of	Indicator	S	Permissib	le levels,	Note
products			mg/kg, no		
Produces			than	0 111020	
1	0		3		4
1	2		3		4
1 0 10 0 1					
1.9.12. Cooking	Toxic eler	ments:			
and medicated					
salt					
	2 1		0 0		
	lead .		2.0		
	arsenic		1.0		
	cadmium		0.1		
	mercury		0.1 0.01		"Extra",
					medicated
	iodine		0.04		mg/g,
					iodine-treated;
					when
					establishing
					the permissible
					level - 0.04
					+/- 0.015
(as amended by A	Amendments	and Add	ditions No	. 2, appro	ved by
Resolution No. 4	41 of Chie	f State	Sanitary	Inspector	of the RF dated
15.04.2003, No.					
Sanitary Inspect		_			
banicary inspect	cor or enc	ni aaci	20.00.2	.010)	
1.9.13.	Toxic eler	ments:			
Crystallized					
aminoacids and					
their mixtures;	lead		1.0		
	arsenic		1.0		
	cadmium		0.1		
	mercury		0.03		
(as amended by A	_		I	18 annr	nued hu
Resolution No.					
	/I OI CIIIe	I State	Sallicary	Inspector	of the RF dated
28.06.2010)					
	Micro	biologi	cal indication	ators:	
		_		1	h
Index, group of	QMAFAnM		products		Note
products	,			CFU/g not	
	CFU/g,	indicat	or is not	more than	
	not	allowed			
	more	Colifor	Pathogeni		
		m	c,		
			including		
		a	salmonell		
		(colifo	a		
		rms)			
1.9.13.1.	1 x 1E3	1.0	25	1 10	
Crystallized					
aminoacids and				1	
their mixtures;				1	
CITCIL MIXCUICS,					
	1	•			

Index, group of products	Indicators	Permissible levels, mg/kg, not more than	Note
1.9.14. Food concentrates	Toxic elements <**>	in terms of original product	
	Radionuclides <**>		
	Dioxins <***>:	in terms of original terms of fat)	product (in

	Micro	obiolog	rical in	dicato	ors:				
Index, group of products	,	, which the indicator is , CFU/g, not allowed					Moulds Note , CFU/g not		
		rm bacter ia (colif	Sulphit e- reducin g clostri dia	aureu s	Pathog enic, includ ing salmon ella	more than			
1	2	3	4	5	6	7	8		
1.9.14.1. Powder cooking sauces (of heat dehydration)	1 x 1E4	0.01	1.0	1.0	25	100			
1.9.14.2. Powder seasonings with vegetable additives, spices and herbs (of heat dehydration)	1 x 1E4	0.01	1.0		25	100	B. cereus - 100 CFU/g, not more than		
1.9.14.4. Concentrated dinner dishes not requiring cooking (instant soups)	5 x 1E4	0.1	_	0.1	25	100			
1.9.14.5. Starters and main courses of extrusion technology, not requiring cooking	5 x 1E4	1.0	_	1.0	25	100	B. cereus - 100 CFU/g, not more than		

1.9.14.6. Multicomponent dry soups, requiring cooking (vegetable soups with smoked products, meat and chicken soups with pasta, meat and chicken -mash, -vegetable mash)	5 х	1E4	0.01	0.01		25	500	
1.9.14.8. Dry mushroom soups, requiring cooking	5 x	1E4	0.001	0.01	_	25	500	

ConsultantPlus: note:
The numbering of items is given in accordance with the official text of the document.

1.9.14.7. Broths	5 x 1E4	1.0	0.01	25	200	
- powder						
concentrates with						
spices, requiring						
cooking						

ConsultantPlus: note:
The numbering of items is given in accordance with the official text of the document.

document.						
1.9.14.9. Dry instant porridge concentrates	1 x 1E4	0.01	_	-	25	B. cereus - 100 and yeast - CFU/g, not more than
1.9.14.10. Dry fruit kissels	1 x 1E5	0.01	-	_	25	yeast - 500 CFU/g, not more than
1.9.14.11. Dry prophylactic food products - cereal, milk, meat mixtures (of extrusion technology)	5 × 1E3	0.1		1.0	25	B. cereus - 10 and yeast - 10, CFU/g, not more than

Index, group of products	QMAFAnM , CFU/g,				g) in word allo		Notes
	not more than	Colifo rm bacter ia (colif orms)	coli	s. aureu s		Pathog enic, includ ing salmon ella	
1	2	3	4	5	6	7	8
1.9.15. Ready-to-eat culinary products, including products for public catering							
1.9.15.1. Raw vegetable and fruit salads: - without dressing	1 x 1E4	0.1	1.0	1.0			L. monocytogen es in 25 g are not
- with dressing (mayonnaise, sauces, etc.)	5 x 1E4	0.1	1.0	1.0		25	allowed the same; yeast - 500, with preserving agents - 200 CFU/g, not more than; moulds - 50 CFU/g, not more than
1.9.15.2. Raw vegetable salads with eggs, canned vegetables, fruit, etc.:							
- without dressing and pickled vegetables	1 x 1E5	0.01	0.1	0.1	0.1		L. monocytogen es in 25 g are not allowed

- with dressing (mayonnaise, sauces, etc.)	1 x	1E5	0.01	0.1	0.1	0.1	25	the same; yeast - 500, with preserving agents - 200 CFU/g, not more than; moulds - 50 CFU/g, not more than
1.9.15.3. Salads with pickled, fermented, brined vegetables	_		0.1	0.1	0.1	0.1	25	more enam
vegetables abd dressing	5 x			0.1	1.0	0.1	25	yeast - 500, with preserving agents - 2 00 CFU/g, not more
1.9.15.5. Salads								than; moulds - 50 CFU/g, not more than
with meat, poultry, fish, smoked products, etc.:								
- without	1 x	1E4	0.1	0.1	0.1	0.1	25	
(mayonnaise, sauces, etc.)	5 x			0.1	0.1	0.1	25	yeast - 500, with preserving agents - 2 00 CFU/g, not more than; moulds - 50 CFU/g, not more than
1.9.15.6. Jellied fish (aspic)	1 x	1E3	1.0	-	1.0	0.1	25	

<pre>jellied beef, pork, poultry (aspic)</pre>	1 2	k 1E	40.1	1.0	0.1	0.1	25	
Meat and liver	1 2	1E	40.1	1.0	0.1	0.1	25	
Boiled beef, poultry, rabbit, pork, etc. (without dressing and sauce)	1 2	k 1E	4 1.0		1.0	0.1		without dressing and sauce

Boiled and fried fish with marinade	1 x	1E4	1.0		1.0	0.1	25	
1.9.15.7. Cold soups:								
- meat and vegetable soups with kvass, kefir; beet-root soup, botvinia			0.01	0.1	0.1	0.1	25	
<pre>- beet-root and cabbage soup with meat, fish, egg (without a sour cream dressing) (as amended by Ame</pre>			0.01					without a sour cream dressing by
Resolution No. 71								
28.06.2010)  - sweet soups and cream soups with canned and desiccated fruits and berries	1 x	1E3	1.0		1.0		25	
1.9.15.8. Hot soups and other hot dishes: - beet-root soup, cabbage soup, pickled cucumber soup, spicy soup, saltwort,	5 x	1E2	1.0				25	
vegetable soup, broth - soups with pasta and potato, vegetables, legumes, cereals; milk soups with the same ingredients	5 x	1E2	1.0		1.0		25	
- cream soups	5 x	1E2	1.0	1.0	1.0		25	
1.9.15.9. Eggs dishes:								
- boiled eggs	1 x	1E3	1.0	-	1.0		25	
- omelettes with eggs (egg melange, egg powder) with and without vegetables, meat products, etc., egg fillings	1 x	1E3	1.0		1.0	0.1	25	

1.9.15.10. Curd dishes:							
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- dumplings,	5 x 1E2	1.0	<b> </b> _	1.0	<u> </u>	25	l I
dampiings,	O A ILIZ			1.0			
steamed pudding - cheese cakes, baked pudding, curd fillings, pies	1 x 1E3	31.0		1.0	0.1	25	
1.9.15.11. Fish							
dishes:							
- boiled, stewed, fried, baked fish	1 x 1E3	3 1.0		1.0	0.1	25	
- fish cutlets (stuffed cutlets, schnitzel, meatballs with tomato sauce); baked dishes, pies	2.5 x 1E3	1.0		1.0	0.1	25	
1.9.15.12.  Meat and meat product dishes: boiled, fried, stewed meat, pilaf, ravioli, meat pies, pancakes, chopped meat dishes, including baked dishes, etc.	1 x 1E3	31.0		1.0	0.1	25	
1.9.15.13. Poultry and rabbit boiled, fried, stewed, baked dishes, chopped poultry dishes, ravioli, pies, etc.	1 x 1E3	31.0		1.0	0.1	25	
1.9.15.14. Garnish: - boiled rice, boiled pasta, mashed potatoes (without dressing), etc.	1 x 1E3	31.0	1.0	1.0	0.1	25	without dressing

(as amended by Ame Resolution No. 71								
28.06.2010) - boiled, fried potato (without dressing)	1 x	1E3	1.0		1.0	0.1	25	
(as amended by Ame Resolution No. 71							-	_
28.06.2010) - stewed vegetables (without dressing)	5 x	1E2	1.0	_	1.0	0.1	25	
(as amended by Ame Resolution No. 71 28.06.2010)								
1.9.15.15. Sauces and dressings for main courses	5 x	1E3	1.0	_	1.0	0.1	25	
1.9.15.16. Sweet dishes and beverages: - kompots with fresh and canned	5 x	1E2	1.0		1.0		25	
fruit and berries - kompots with dried fruit and berries		1E2	1.0		1.0		50	
<pre>- kissels with fresh and dried fruit and berries, juices, syrups, fruit and</pre>	5 х	1E2	1.0		1.0		50	
berry mash - freshly- squeezed fruit and vegetable juices	1 x	1E3	1.0	1.0	1.0		25	in vegetable juices: L. monocytogen es in 25 g are not
- jelly, mousses	1 x	1E3	1.0	_	1.0	_	25	allowed
- creams (citrus, vanilla, chocolate, etc.)	1 x	1E5	0.1		0.1		25	
- apple charlotte	1 x	1E3	1.0	_	1.0	_	25	
- milkshakes	1 x	1E5	0.1	_	1.0	_	25	
- whipped cream	1 x	1E5	0.1		0.1		25	
1.9.15.17.								

Ready-to-eat poultry and fish dishes in consumer packaging,	1 x 1E3 1.0	1.0	0.1	25	sulfite- reducing clostridia in 0.1 g in vacuum-
including vacuum- packaged					packaged products are not

							allowed
1.9.15.18. Pizza frozen semi- product	5 x 1E4	0.01	0.1	0.1	-	25	
1.9.15.19. Ready- to-eat pizza	1 x 1E3	1.0	_	1.0	0.1	25	
1.9.15.20. Candy floss	1 x 1E3	1.0	_	_	_	25	
1.9.15.21. Ready- to-eat hamburgers, cheeseburgers, sandwiches	2 x 1E4	0.1	1.0	1.0		25	
1.9.15.21. Flour confectionery products with decoration produced by public catering enterprises	accordi	ng to (	Clause	1.5.5			E. coli in 0.1 g are not allowed

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<*> It is also required to control residual quantities of the pesticides and the antibiotics used for production of food raw material (see Clauses 3.12, 3.13, 3.15).

<**> Content of toxic elements and radionuclides in food (combined) concentrates must be calculated on the basis of main component(s) both in terms of mass fraction and permissible levels of such contaminants. Note:

<***> the maximum permissible level shall not be applied to products containing less than 1% of fat;

⁻ hereinafter dioxins shall be understood to represent the sum of polychlorinated dibenzo-p-dioxin (PCDD) and polychlorinated dibenzofurans (PCDF), expressed as a sum of toxic equivalency factors (TEF) according to the WHO scale (WHO-TEFs):

TOXIC EQUIVALENCY FACTORS (according to WHO scale) <*>

TOXIC EQUIVALENCY FACTOR	3 (according to WHO scale) < >
Congener	TEF Value
Dibenzo-p-dioxin (PCDD)	
2,3,7,8-Tetrachlorodibenzodioxin	1
1,2,3,7,8-Pentachlorodibenzodioxin	1
1,2,3,4,7,8-Hexachlorodibenzodioxin	0.1
1,2,3,4,7,8-Hexachlorodibenzodioxin	0.1
1,2,3,7,8,9-Hexachlorodibenzodioxin	0.1
1,2,3,4,6,7,8-Heptachlorodibenzodioxin	0.01
Octachlorodibenzodioxin	0.0001
Dibenzofurans (PCDF)	
2,3,7,8-Tetrachlorodibenzofuran	0.1
1,2,3,7,8-Pentachlorodibenzofuran	0.05
2,3,4,7,8-Pentachlorodibenzofuran	0.5
1,2,3,4,7,8-Hexachlorodibenzofuran	0.1
1,2,3,6,7,8-Hexachlorodibenzofuran	0.1
1,2,3,7,8,9-Hexachlorodibenzofuran	0.1
2,3,4,6,7,8-Hexachlorodibenzofuran	0.1
1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.01
1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.01
Oktachlorodibenzofuran	0.0001
	İ

(the note was introduced by Amendments and Additions No. 10, approved by Resolution No. 43 of Chief State Sanitary Inspector of the RF dated 16.07.2008)

## 1.10. Biologically Active Food Additives

Index, group of products	Indicators	Permissible levels, mg/kg, not more than	Note						
1	2	3	4						
		s are regulated sub 9.1, 1.9.2, 1.9.3, 1.							
1.10.2.									
BAA primarily based on lipids of animal and vegetable origin:	_	are regulated subje	ct to Sections:						
- BAA based on vegetable oils	Clauses 1.7.2, 1.	7.3							
- BAA based on fish fat	Clause 1.7.8								
- BAA based on animal fats	Clauses 1.7.4, 1.7.5, 1.7.6								
- BAA based on mixed fats	by prevailing components								
	Dioxins <***>:	according to Clauses 1.7.2, 1.7.3	BAA based on vegetable oils (in terms of fat)						
		according to Clause 1.7.8	BAA based on fish fat (in terms of fat)						
		according to Clause 1.7.4	BAA based on animal fats (in terms of fat)						
		according to Clauses 1.7.3, 1.7.7	BAA based on mixed fats (in terms of fat)						
_		Additions No. 10, Chief State Sanitary							

1.10.3. BAA	Safety indicators	s are regulated subje	ct to Clauses
based on	1.5.1, 1.6.2, 1.9	0.8, 1.5.6. Safety in	dicators for
predominantly	syrups are estima	ated by dry substance	(Clause 1.5.1)
digestible			
carbohydrates,			
including honey			
with			
biologically			
active			
components			
added, syrups,			
etc.			
1.10.4. BAA	Toxic elements:		
based on			
predominantly			
dietary fibers	lead	1.0	
(cellulose,	arsenic	0.2	
gums,		0.2	
pectin, qum	cadmium	0.03	
resin,	mercury	0.03	
microcrystal	Mycotoxins:		are regulated
cellulose,			for raw material
bran,			
fructooligosacc	Pesticides <*>:		
harides ,		0.5	
chitosan and	Hexachlorocycloh	0.3	
other	exane		
polysaccharides	(alpha-, beta-,		
)	gamma-isomers)	0.00	
	DDT and its	0.02	
	metabolites		
	Heptachlor	not allowed	< 0.002
	Aldrin	not allowed	< 0.002
	Radionuclides:		
	caesium-137	200	Bq/kg
	Strontium-90	100	the same

Index, group of products	QMAFAnM , CFU/g,		of products h the indic not	-	Note
	not	Colifo	E. coli	Pathogen	
	more	rm		ic,	
	than	bacter		includin	
		ia		g	
		(colif		salmonel	
1 10 4 1	-	orms)		la	
1.10.4.1.		0.1	1.0	25	
BAA based on	5 x	0.1	1.0	23	yeast and
predominantly dietary fibers	1E4				moulds - 100 CFU/q, not more
(cellulose, gums,					than
pectin, qum					Cilali
resin, gum					
microcrystal					
cellulose, bran,					
fructooligosaccha					
rides , chitosan					
and other					
polysaccharides),					
including fibers					
with prebiotic					
effect					

(as amended by Amendments and Additions No. 2, approved by Resolution No. 41

Chief State Sanitary Inspector of the RF dated 15.04.2003)

Index, group	Indicators	Permissible levels,	Note
of products		mg/kg, not more than	
1	2	3	4
1.10.5.			
BAA based on pure	Toxic elements:		
substances	lead	5.0	
(vitamins, mineral	arsenic cadmium	3.0 1.0	
substances,	mercury	1.0	
organic acids, etc.) and their concentrates (vegetable	Pesticides <*>: hexachlorocycloh exane (alpha-, beta-,	0.1	for composites with included vegetable components
extracts, etc.) with the	gamma-isomers) DDT and its metabolites	0.1	
use of different	Heptachlor	not allowed	< 0.002
filling agents,	Aldrin	not allowed	< 0.002
including dry concentrates for beverages	Radionuclides:		for composites with included vegetable components
	caesium-137	200	Bq/kg
	Strontium-90	100	the same

Microbiological indicators:						
Index, group of products	QMAFAnM , CFU/g, not more than	Colifo rm bacter ia (colif	of products h the indic not E. coli	Note		
1.10.5.1. BAA based on pure	5 x	0.1	1.0	10.0	yeast and	
substances (vitamins, mineral substances, organic acids, etc.) or their concentrates (vegetable extracts, etc.) with the use of different filling agents, including dry concentrates for beverages					moulds - 100 CFU/g, not more than	

Index, group of products	Indicators	Permissible levels, mg/kg, not more than	Note
1.10.6. BAA based on natural	Toxic elements:		
minerals (zeolites,	lead arsenic	6.0 3.0	
etc.), including Shilajit	cadmium	12.0	Shilajit
	mercury	1.0	
	Radionuclides: caesium-137 Strontium-90	200 100	Bq/kg the same

Microbiological indicators:						
Index, group of products	, CFU/g,		_		Note	
	more	m bacteri a (colifo rms)	aureus	Pathoge nic, includi ng salmone lla	not more than	
1.10.6.1. BAA based on natural minerals (zeolites, etc.), including Shilajit	1 x 1E4	0.1	1.0	10.0	200	yeast and moulds - 100 CFU/g, not more than

Index, group of products	Indicators	Permissible levels, mg/kg, not more than	Note
1	2	3	4
1.10.7.			
BAA on vegetative basis, including farina			
- dry (tea)	Toxic elements:		
	lead arsenic cadmium mercury	6.0 0.5 1.0 0.1	
	Pesticides <*>: hexachlorocycloh exane (alpha-, beta-, gamma-isomers)	0.1	
	DDT and its metabolites heptachlor aldrin	0.1 not allowed not allowed	< 0.002 < 0.002
- liquid (elixirs,	Toxic elements:		
<pre>balms, tinctures, etc. )</pre>	lead arsenic cadmium mercury	0.5 0.05 0.03 0.01	
	Pesticides <*>: hexachlorocycloh exane (alpha-, beta-, gamma-isomers)	0.1	
	-	0.1 not allowed not allowed	< 0.002 < 0.002

Index, group of products	,	Mass o which not all	the i	lucts .ndica		Yeast, CFU/g, not	Moulds , CFU/g	Note
not more	_	Colifo rm bacter ia (colif orms)		S. aureu s	Pathog enic, includ ing salmon ella	more than	not more than	
1	2	3	4	5	6	7	8	9
1.10.7.1.  BAA on the vegetative basis, including farina: - tableted, capsular,	1 × 1E4	0.1	1.0	1.0	10	100	100	B. cereus
- tableted, capsular, powder with probiotic microorganisms added		0.1	1.0	1.0	10	100	100	200 CFU/g, not more than Probio tic microo rganis ms: 1 x 1E5 CFU/g not less than
- liquid of aseptic bottling	for car	ned fo	od of t	the co	rrespon	ndustri ding gr Sanita	oups in	1
- liquid in the form of syrups, elixirs, tinctures, balms, etc.	5 x 1E3	1.0			10	50	50	B. cereus 200 CFU/g, not more than
<pre>- dry medicinal plant mixtures (tea)</pre>	5 x 1E5	0.01	0.1		10	100	1E3	
- BAA - tea (for children dry)	5 x 1E3	0.1	1.0	1.0	25	50	50	B. cereus 200 CFU/g, not more

Index, group of products	Indicators	Permissible levels, mg/kg, not more than	Note
1	2	3	4
1.10.8.	Toxic elements:		
Meat and milk stock			
derived	lead	1.0	
BAA, including	arsenic	1.5	
offal,	cadmium	1.0	
<pre>poultry; arthropods,</pre>	mercury	0.2	
<pre>amphibians, beekeeping products (royal jelly, propolis, etc.) - dry</pre>	-		
	Mycotoxins: aflatoxin M1	0.0005	for milk stock derived BAA
	Antibiotics <*>:		
derived BAA,	laevomycetin (chloramphenicol	0.01	Expiring on 01.01.2012.
including poultry offal	)	0.0003	Shall become effective since 01.01.2012.
	tetracycline group	0.01	011011110111
	bacitracin	0.02	
		4, approved by Resol the RF dated 01.06.2	
derived BAA	(chloramphenicol		01.01.2012.
	,	0.0003	Shall become effective since 01.01.2012.
	tetracycline group	0.01	
	1	0.2	
	streptomycin	0.2	
	streptomycin penicillins	0.004	
	penicillins Amendments No. 2		

0.1	
not allowed not allowed	< 0.002 < 0.002
ndicators: QMAFAnM 1	CFU/g, not more than
0.1	mass (g) in which the indicator is not
1 0	allowed the same
	the same
	the same
10.0	the same
200	CFU/g, not more than, for beekeeping products
according to	meat stock
Clauses 1.1.1,	derived BAA,
1.1.2, 1.1.9,	including
1.1.10	poultry offal (in terms of fat)
according to Clause 1.2.1	milk stock derived BAA (in terms of fat)
	not allowed not allowed  ndicators: QMAFAnM 1  0.1  1.0 1.0 10.0  200  according to Clauses 1.1.1, 1.1.2, 1.1.9, 1.1.10

Melamine not allowed < 1 mg/kg (as amended by Amendments and Additions No. 2, approved by Resolution No. 41 of Chief State Sanitary Inspector of the RF dated 15.04.2003, No. 10, approved by Resolution No. 43 of Chief State Sanitary

Inspector of the RF dated 16.07.2008, Amendments No. 11, approved by Resolution No. 56 of Chief State Sanitary Inspector of the RF dated

01.10.2008)

1.10.9.			
BAA based on	Toxic elements:		
fish, marine			
	lead	10.0	
01 40 040 04110 /	arsenic	12.0	
molluscs, and	cadmium	2.0	
other	mercury	0.5	
seafood, plant	Pesticides <*>:		
marine	lesticides ( ):		
organisms	hexachlorocyclohe	0.2	
(algae, etc.) -	xane		
dry	(alpha-, beta-,		
	gamma-isomers)		
	DDT and its	0.2	
	metabolites		
	Heptachlor	not allowed	< 0.002
	Aldrin	not allowed	< 0.002
	Radionuclides:		
	caesium-137	200	Bq/kg
	Strontium-90	100	the same
	Defendant 90	100	ciic bame
	Microbiological		
	indicators:		

QMAFAnM,	1 x 1E4	CFU/g, not more than
Coliform bacteria (coliforms)	0.1	Mass (g) in which the
		indicator is not allowed
E. coli	1.0	the same
S. aureus	1.0	the same
Pathogenic,	10.0	the same
including		
salmonella		
Yeast and moulds	200	CFU/g, not more than <*> for BAA based on plant marine organisms
Dioxins <***>:	according to Clause 1.3.1	BAA based on fish
	according to Clause 1.3.6	BAA based on fish fat

Index, group of products	Indica	tors			sible leve not more	C±5,	lote
1.10.10. BAA -	Toxic						
based on	elemen	+ 0					
		ILS		0 1			
probiotic	lead			0.1			
microorganisms	arseni	.C		0.05			
	cadmiu	ım		0.03			
	mercur	. A		0.005			
		1					
	Pestic	ides <	*>:	0.05			
	hexach	lorocy	clo-				
	hexane	<u>:</u>					
	(alpha	-, bet	a				
	_	isomer					
	_		3),				
	DDT an						
	metabo					<	0.002
	Heptac	hlor		0.05			
	Aldrin	l				<	0.002
	l	-1-1-2		4 3 3		l	
	Micr	obiolo	gical	indica	tors:		
- 1		<u> </u>			I		Note
Index, group of				_		Moulds,	Note
products	which	the i	ndica	ator is	CFU/g	CFU/g,	
	not all	Lowed			not more	not	
	Colifo	Ε.	s.	Pathog	than	more	
	rm		aurei	enic,		than	
	bacter	coli	s	includ			
			5				
	ia			ing			
	(colif			salmon			
	orms)			ella			
1	2	3	4	5	6	7	8
_	_	•					
1.10.10.1. BAA							
- based on							
probiotic							
microorganisms:							
mioroorganiomo:							
			<u> </u>	4			
- BAA - dry	2.0		2.0	10.0	10	10	probiotic
based on pure				1			microorganis
microorganism							ms not less
cultures							than 1 x 1E9
Cultules							
							CFU/g
				1			
			<u></u>	<u> </u>			
- BAA - dry	1.0	5.0	1.0	10.0	50	50	Probiotic
based on pure				1			microorganis
microorganism							ms not less
cultures							than 1 x 1E8
with addition of							CFU/g
aminoacids,				1			
microelements,				1			
mono-, di- and				1			
				1			
oligosaccharide				1			
s, etc.)							
1	I .		I	1	I	1	

- BAA - liquid based on pure microorganism cultures concentrated		10.0	50.0	10 <*:	probiotic microorganis ms not less than 1 x 1E10 CFU/g <*> yeast and moulds in total
- BAA - liquid based on pure microorganism cultures non- concentrated	10.0	10.0	50.0	10 <*:	Probiotic microorganis ms not less than 1 x 1E7 CFU/g; <*> the same

2  oxic elements: ead rsenic admium ercury itrates  esticides <*>: exachlorocycloh xane	Permissible levels, mg/kg, not more than  3  2.0  1.0  1.0  0.1	4
oxic elements: ead rsenic admium ercury itrates esticides <*>: exachlorocycloh	2.0 1.0 1.0 0.1	for BAA based on
oxic elements: ead rsenic admium ercury itrates esticides <*>: exachlorocycloh	2.0 1.0 1.0 0.1	for BAA based on
ead rsenic admium ercury itrates esticides <*>: exachlorocycloh	1.0 1.0 0.1	
rsenic admium ercury itrates esticides <*>: exachlorocycloh	1.0 1.0 0.1	
rsenic admium ercury itrates esticides <*>: exachlorocycloh	1.0 1.0 0.1	
admium ercury itrates esticides <*>: exachlorocycloh	1.0	
ercury itrates esticides <*>: exachlorocycloh	0.1	for BAA based on algae
itrates  esticides <*>: exachlorocycloh		
esticides <*>: exachlorocycloh	1000	
exachlorocycloh		algae
exachlorocycloh		
exachlorocycloh	_	
	1	
	0.1	
alpha-, beta-,		
amma-isomers) DT and its	0.1	
etabolites		
eptachlor	not allowed	< 0.002
ldrin	not allowed	< 0.002
adionuclides:		
aesium-137		Bq/kg
trontium- 90	100	the same
icrobiological		
ndicators:		
MAFAnM,	1 x 1E4	CFU/g, not more
oliform	0.1	than Mass (g) in
acteria		which the
coliforms)		indicator is not
. coli	1.0	allowed the same
athogenic,	10.0	the same
ncluding		
	1.0	
east		CFU/g, not more than, for yeast
	100	and their
		lysates, the
		same for algae
oulds	50	CFU/g, not more
	100	than, for yeast
		and their lysates, the
		same for algae
	for yeast and their	
iving cells of		-100000 TIL T.O A
n M C a c	ndicators: MAFAnM,  pliform acteria coliforms)  coli athogenic, acluding almonella east	ndicators:  MAFANM, 1 x 1E4  Poliform 0.1  acteria coliforms)  Coli 1.0 athogenic, 10.0 acluding almonella east 10 100

(as amended by Amendments and Additions No. 2, approved by Resolution No. 41 of Chief State Sanitary Inspector of the RF dated 15.04.2003)

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<*> It is also required to control residual quantities of the pesticides and the antibiotics used for production of food raw material (see Clauses 3.12, 3.13, 3.15).

(the note was amended by Amendments and Additions No. 22, approved by Resolution No. 177 of Chief State Sanitary Inspector of the RF dated 27.12.2010)

<**> If grizin, bacitracin, antibiotics of tetracycline group are determined with the use of chemical methods of determination, re-calculation of their actual content in unit/g shall be carried out according to the standard activity.

Note:

<***> the maximum permissible level shall not be applied to products containing less than 1% of fat;

- hereinafter dioxins shall be understood to represent the sum of polychlorinated dibenzo-p-dioxin (PCDD) and polychlorinated dibenzofurans (PCDF), expressed as a sum of toxic equivalency factors (TEF)

TOXIC EQUIVALENCY FACTORS (according to	WHO scale) <*>
Congener	TEF value
Dibenzo-p-dioxin (PCDD)	
2,3,7,8-Tetrachlorodibenzodioxin	1
1,2,3,7,8-Pentachlorodibenzodioxin	1
1,2,3,4,7,8-Hexachlorodibenzodioxin	0.1
1,2,3,4,7,8-Hexachlorodibenzodioxin	0.1
1,2,3,7,8,9-Hexachlorodibenzodioxin	0.1
1,2,3,4,6,7,8-Heptachlorodibenzodioxin	0.01
Octachlorodibenzodioxin	0.0001
Dibenzofurans (PCDF)	
2,3,7,8-Tetrachlorodibenzofuran	0.1
1,2,3,7,8-Pentachlorodibenzofuran	0.05
2,3,4,7,8-Pentachlorodibenzofuran	0.5
1,2,3,4,7,8-Hexachlorodibenzofuran	0.1
1,2,3,6,7,8-Hexachlorodibenzofuran	0.1
1,2,3,7,8,9-Hexachlorodibenzofuran	0.1
2,3,4,6,7,8-Hexachlorodibenzofuran	0.1
1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.01
1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.01
Oktachlorodibenzofuran	0.0001

(the note was introduced by Amendments and Additions No. 10, approved by Resolution No. 43 of Chief State Sanitary Inspector of the RF dated 16.07.2008)

<*> 1 pg TEF means that this is a mixture of PCDD and PCDF which corresponds to 1 pg of 2,3,7,8-Tetrac (TCDD).

Annex 2 to SanPin 2.3.2.1078-01, approved by Resolution No. 36 of Chief State Sanitary Inspector of the RF as of November 14, 2001

(as amended by Amendments and Additions No. 2, approved by Resolution No. 41 of Chief State Sanitary Inspector of the RF dated 15.04.2003)

#### 2.1. HYGIENIC REQUIREMENTS FOR NUTRITION VALUE OF SPECIFIC FOOD PRODUCTS

Excluded. - Amendments and Additions No. 2, approved by Resolution No. 41 of Chief State Sanitary Inspector of the RF dated 15.04.2003

2.2. CRITERIA FOR NUTRITION VALUE OF FRUIT AND VEGETABLE JUICES

## Organic acids, hydrocarbons, 5-oxymethylfurfurol, Na and K cations

Type of juice	BRIX	Ascorbic	Lemon	Malic	Oxymethylf	Fructose, g/l	Glucose,	Glucose /	Sucrose, g/l	Sorbitol,	Na, mg/l	K, mg/l
		acid	acid	acid	urfurol, g/l		g/l	Fructose		g/l		
		mg/l	g/II	g/l								
Orange	10.0	>= 200	6.3 - 17.0	0.8 - 3.0	<= 10	20 - 50	20 - 50	1	10 - 50	-	<= 30	1300 - 2500
Grapefruit	9.5	>= 200	8.0 - 20.0	0.2 - 12.0	<= 10	20 - 50	20 - 50	0.9 - 1.02	5 - 40	-	<= 30	900 - 2000
Apple	10.0	-	0.05 - 0.2	> 3.0	<= 20	45 - 85	15 - 35	0.3 -	5 - 30	2.5 -	<= 30	900 - 1500
								0.5		7.0		
Grape	13.5	-	0 -	2.5 -	<= 20	60 - 110	60 - 110	1.0	no		<= 30	900 - 2000
<*>			0.5	7.0								
Pineapple	11.2	>= 50	3.0 - 11.0	1.0 - 4.0	<= 20	15 - 40	15 - 40	0.8 - 1.1	25 - 80	-	<= 30	900 - 2000
Apricot	10.2	-	1.5 - 16.0	5 - 20	<= 20	10 - 45	15 - 50	1.0 -	< 55	1.5 - 10	<= 35	2000 -
(mash)	(11.2)							2.5				4000
Tomato	5.0	-	2.0 -	0.1 - 0.6	<= 20	12 - 18	10 - 16	0.8 - 1.0	< 1	-	<= 100	1500 -
			5.0									3500

Black currant (mash)	11.6	>= 750	26.0 - 42.0	1 - 4	<= 20	30 - 65	23 - 50	0.6 - 0.9	0 - 5	-	<= 30	2300 - 4100
Cherry	13.5	-	0.0 - 0.4	15.5 - 27.0	<= 20	32 - 60	35 - 70	1.0 - 1.35	no	10 - 35	<= 30	1600 - 3500
Peach	10.0	-	1.5 - 5.0	2.0 - 6.0	<= 20	10 - 32	7.5 - 25	0.8 - 1.0	12 - 60	1 - 5	<= 35	1400 - 3300
Strawberry	7.0	-	5 - 11	0.6 - 5.0	<= 20	18 - 40	15 - 35	0.75 - 1.0	< 10	< 0.25	<= 40	1300 - 2800
Pear	11.9	-	< 4.0	0.8 - 5.0	<= 20	50 - 90	10 - 35	< 0.4	0 - 15	-	<= 30	1000 - 2000
Lemon	8.0	>= 150	45 - 63	1.0 - 7.5	<= 20	3 - 12	3 - 11	0.9 - 1.3	< 7.0	-	<= 30	1100 - 2000

Annex 3 to SanPin 2.3.2.1078-01, approved by Resolution No. 36 of Chief State Sanitary Inspector of the RF as of November 14, 2001

#### 3. HYGIENIC REQUIREMENTS FOR SAFETY AND NUTRITION VALUE OF BABY FOOD

(as amended by Amendments and Additions No. 2, approved by Resolution No. 41 of Chief State Sanitary Inspector of the RF dated 15.04.2003, No. 10, approved by Resolution No. 43 of Chief State Sanitary Inspector of the RF dated 16.07.2008, Amendments No. 11, approved by Resolution No. 56 of Chief State Sanitary Inspector of the RF dated 01.10.2008, Amendments and Additions No. 18, approved by Resolution No. 71 of Chief State Sanitary Inspector of the RF dated 28.06.2010, Amendments and Additions No. 22, approved by Resolution No. 177 of Chief State Sanitary Inspector of the RF dated 27.12.2010, Amendment No. 24, approved by Resolution No. 79 of Chief State Sanitary Inspector of the RF dated 01.06.2011)

#### 3.1. Infant Food Products

#### 3.1.1. Milk-based products

#### 3.1.1.1. Adapted infant formula (powder, liquid, flavourless and fermented)

#### 1) Nutritional value (in a ready-to-use product)

(as amended by Amendments and Additions No. 10, approved by Resolution No. 43 of Chief State Sanitary Inspector of the RF dated 16.07.2008)

Criteria and indices	Measureme nt Units	Permissible levels		Note
		standard	marked	
1	2	3	4	5
For 0-5	month-old	children		
Protein <1>	g/l	12 - 17	+	
Milk whey proteins	% of total protein quantity, not less than	50	+	
Taurine	mg/l	40 - 60	+	
Fat <2>	g/l	30 - 40	+	
Linoleic acid	% of the sum of fatty acids		+	
Linoleic acid	mg/l	4000 - 8000	-	

Alpha - tocopherol /polyunsaturated fatty acids ratio		1 - 2	
Hydrocarbons <3>	g/l	65 - 80	+
Lactose	% of total hydrocarbo n quantity, not less than	65	+
Energy value	kcal/l	640 - 700	+
Mineral substances:			
calcium	mg/l	330 - 700	+
phosphorus	mg/l	150 - 400	+
calcium/phosphorus ratio	-	1.2 - 2.0	-
potassium	mg/l	400 - 800	+
sodium	mg/l	150 - 300	+
potassium/sodium ratio	-	2.5 - 3	-
magnesium	mg/l	30 - 90	+
copper	mkg/l	300 - 600	+
manganese	mkg/l	10 - 300	+
iron	mg/l	3 - 9	+
zinc	mg/l	3 - 10	+
chlorides	mg/l	300 - 800	-
iodine	mkg/l	50 - 150	+
selenium	mkg/l	10 - 40	+
ash	g/l	2.5 - 4.0	+
Vitamins:		•	1
retinol (A)	mkg-eq/l	400 - 1000	+
tocopherol (E)	mg/l	4 - 12	+
calciferol (D)	mkg/l	7.5 - 12.5	+
vitamin K	mkg/l	25 - 60	+
thiamine (B1)	mg/l	0.4 - 2.1	+
riboflavin (B2)	mg/l	0.5 - 2.8	+
pantothenic acid	mg/l	2.7 - 14.0	+
pyridoxine (B6)	mg/l	0.3 - 1.0	+

niacin (PP)	mg/l	2.0 - 10.0	+	
folic acid (Bc)	mkg/l	60 - 350	+	
cyanocobalamin (B12)	mkg/l	1 - 3	+	
ascorbic acid (C)	mg/l	55 - 150	+	
inosite	mg/l	20 - 280	+	
choline	mg/l	50 - 350	+	
biotin	mkg/l	10 - 40	+	
L-carnitine	mg/l	10 - 20	+	
Nucleotides (sum of cytidine-, uridine-, adenosine-, guanosine- and inosine-5 monophosphates)	mg/l, not more than	35	+	
Acidophilic microorganisms <4>	CFU/cm3, not less than	7 1 x 10	+	In fermente d milk products (in producti on with the use of them)
Bifidobacterium <4>	the same	6 1 x 10	+	the same
Lactic acid microorganisms <4>	the same	7 1 x 10	+	the same
Osmolality	mOsm/l	290 - 320	+	
Acidity	O Turner, not more than	90	-	for liquid fermented milk products
For 5-	12 month-old	children	l	1
Protein <1>	g/l	12 - 21	+	
Milk whey proteins	% of total protein quantity, not less than	than 35	+	
Fat <2>	g/l	25 - 40	+	
Linoleic acid	% of the sum of fatty acids		+	

Linoleic acid	mg/l	4000 - 8000	-	
Hydrocarbons <3>	g/1	70 - 90	+	
Lactose	% of total hydrocarbo n quantity, not less than		+	
Energy value	kcal/l	640 - 750	+	
	Mineral sul	ostances:		
calcium	mg/l	400 - 900	+	
phosphorus	mg/l	200 - 600	+	
calcium/phosphorus ratio	_	1.2 - 2.0	-	
potassium	mg/l	500 - 900	+	
sodium	the same	150 - 300	+	
potassium/sodium ratio	-	2 - 3	-	
magnesium	mg/l	50 - 100	+	
copper	mkg/l	400 - 1000	+	
manganese	mkg/l	10 - 300	+	
iron	mg/l	7 - 14	+	
zinc	mg/l	4 - 10	+	
chlorides	mg/l	300 - 800	-	
iodine	mkg/l	50 - 350	+	
selenium	mkg/l	10 - 40	+	
ash	g/l	2.5 - 6.0	+	
Vitamins:	1			
retinol (A)	mkg-eq/l	400 - 800	+	
tocopherol (E)	mg/l	4 - 12	+	
calciferol (D)	mkg/l	8 - 21	+	
vitamin K	mkg/l	25 - 170	+	
thiamine (B1)	mg/l	0.4 - 2.1	+	
riboflavin (B2)	mg/l	0.5 - 2.8	+	
panthotenic acid	mg/l	3.0 - 14.0	+	
pyridoxine (B6)	mg/l	0.4 - 1.2	+	

niacin (PP)	mg/l	3.0 - 10.0	+	
folic acid (Bc)	mkg/l	60 - 350	+	
cyanocobalamin (B12)	mkg/l	1.5 - 3.0	+	
ascorbic acid (C)	mg/l	55 - 150	+	
choline	mg/l	50 - 350	+	
biotin	mkg/l	10 - 40	+	
inosite	mg/l	20 - 280	+	
L-carnitine	mg/l	5 - 20	-	
Nucleotides (sum of cytidine-, uridine-, adenosine-, guanosine- and inosine-5 monophosphates)	mg/l, not more than	35	+	
Acidophilic microorganisms <4>	CFU/cm3, not less than	7 1 x 10	+	in fermente d milk products (in producti on with the use of them)
Bifidobacterium <4>	the same	6 1 x 10	+	the same
Lactic acid microorganisms <4>	the same	7 1 x 10	+	the same
Osmolality	mOsm/l	290 - 320	+	
Acidity	O Turner, not more than	90	-	for liquid fermented milk products
For 0-	12 month-old	d children		
Protein <1>	g/l	12 - 21	+	
Milk whey proteins	% of total protein quantity, not less than		+	
Taurine	mg/l	40 - 60	+	
Fat <2>	g/l	30 - 40	+	
Linoleic acid	% of the sum of fatty acids		+	

Linoleic acid	mg/l	4000 - 8000	_	
Alpha - tocopherol /polyunsaturated fatty acids ratio	_	1 - 2	-	
Hydrocarbons <3>	g/l	65 - 80	+	
Lactose	% of total hydrocarbo n quantity, not less than		+	
Energy value	kcal/l	640 - 720	+	
Mineral substances:				
calcium	mg/l	400 - 900	+	
phosphorus	mg/l	200 - 600	+	
calcium/phosphorus ratio	_	1.2 - 2.0	-	
potassium	mg/l	400 - 800	+	
sodium	mg/l	150 - 300	+	
potassium/sodium ratio	_	2.5 - 3	-	
magnesium	mg/l	40 - 100	+	
copper	mkg/l	300 - 1000	+	
manganese	mkg/l	10 - 300	+	
iron	mg/l	6 - 10	+	
zinc	mg/l	3 - 10	+	
chlorides	mg/l	300 - 800	_	
iodine	mkg/l	50 - 350	+	
selenium	mkg/l	10 - 40	+	
ash	g/l	2.5 - 6.0	+	
Vitamins:				
retinol (A)	mkg-eq/l	500 - 800	+	
tocopherol (E)	mg/l	4 - 12	+	
calciferol (D)	mkg/l	8 - 21	+	
vitamin K	mkg/l	25 - 170	+	
thiamine (B1)	mg/l	0.4 - 2.1	+	
riboflavin (B2)	mg/l	0.5 - 2.8	+	
panthotenic acid	mg/l	2.7 - 14.0	+	

pyridoxine (B6)	mg/l	0.3 - 1.2	+	
niacin (PP)	mg/l	3.0 - 10.0	+	
folic acid (Bc)	mkg/l	60 - 350	+	
cyanocobalamin (B12)	mkg/l	1.5 - 3.0	+	
ascorbic acid (C)	mg/l	55 - 150	+	
inosite	mg/l	20 - 280	+	
choline	mg/l	50 - 350	+	
biotin	mkg/l	10 - 40	+	
L-carnitine	mg/l	5 - 20	+	
Nucleotides (sum of cytidine-, uridine-, adenosine-, guanosine- and inosine-5 monophosphates)	mg/l, not more than	35	+	
Acidophilic microorganisms <4>	CFU/cm3, not less than	7 1 x 10	+	in fermente d milk products (in producti on with the use of them)
Bifidobacterium <4>	the same	6 1 x 10	+	the same
Lactic acid	the same	7	+	the same
microorganisms <4>		1 x 10		
Osmolality	mOsm/l	290 - 320	+	
Acidity	O Turner, not more than	90	-	for liquid fermented milk products

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#### Note:

<1> - provided that the protein content in the formula is approximated to the maximum to the protein content in the breast milk;

<2> - the use of sesame and cottonseed oil is prohibited;

the content of trans-isomers must not exceed 3% of the content of common fats;

the total content of myristic and lauric acids must not exceed 20% of the content of common fats; the ratio of linoleic acid to alpha-linolenic acid must not be less than 5 and more than 15;

when enriching the formulas with long chain fatty acids their content must not exceed 1% of the total fat content for w-3 long chain polyunsaturated fatty acids and 2% for w-6 long chain polyunsaturated fatty acids; the content of eicosapentaenoic acid must not exceed the content of docosahexaenoic acid;

- <3> along with lactose maltodextrin and maltose may be used; the content of sucrose and (or) fructose or their sum must not exceed 20% of the total hydrocarbon content; the hydrocarbon component may include prebiotics galactooligosaccharides and fructooligosaccharides (in total not more than 0.8% of the product mass) and lactulose;
  - <4> for dry and liquid fermented milk formulas.

#### 2) Safety indices (in a ready-to-eat product)

(as amended by Amendments and Additions No. 2, approved by Resolution No. 41 of Chief State Sanitary Inspector of the RF dated 15.04.2003)

Indicators	Permissible levels,	Notes
	mg/kg, not more than	
1	2	3
Indications of oxidative		
deterioration:		
Peroxide value	4.0	mmol of active oxygen/kg fat
Toxic elements:		
lead	0.02	
arsenic	0.05	
cadmium	0.02	
mercury	0.005	
No. 43 of Chief State Sanitary  Antibiotics <*>:		
laevomycetin (chloramphenicol)	0.01	Expiring on
		01.01.2012.
	0.0003	Shall becom
		effective sinc 01.01.2012.
tetracycline group	0.01	
penicillins	0.004	
streptomycin	0.2	
(as amended by Amendments No. Chief State Sanitary Inspector		
Mycotoxins:	not allowed	< 0.00002
Aflatoxin M1		
Pesticides <**>:		
<pre>hexachlorocyclohexane (alpha-, beta-, gamma-isomers)</pre>	0.02	
DDT and its metabolites	0.01	
Radionuclides:		
caesium-137	40	Bq/l
Strontium-90	25	the same
Dioxins	not allowed	
(introduced by Amendments and A No. 43 of Chief State Sanitary		

Melamine not allowed < 1 mg/kg

(introduced by Amendments No. 11, approved bz Resolution No. 56 of Chief State Sanitary Inspector of the RF dated 01.10.2008)

Microbiological indicators:

#### DRY MILK INSTANT INFANT FORMULAS (FLAVOURLESS AND FERMENTED)

QMAFAnM,	2 x 1E3	CFU/g, not more
		than, for
		formulas
		reconstituted at
		37 - 50 degrees
		C; for fermented
		milk formulas the
		norms are not
		established
	3 x 1E3	CFU/q, not more
		than, for
		formulas
		reconstituted at
		7 0 - 85 degrees
		C; for fermented
		milk formulas the
		norms are not
		established
Coliform bacteria (coliforms)	1.0	Mass (g) in which
		the indicator is
		not allowed
E. coli	10	the same
S. aureus	10	the same
B. cereus	100	CFU/g, not more
		than
Pathogenic, including	100	Mass of products
salmonella and L.		(g) in which the
monocytogenes		indicator is not
	5.0	allowed
Moulds	50	CFU/g, not more than
		Liian
Vaaet	1 0	the same
	10 1 v 1E7	the same
	10 1 x 1E7	CFU/g, not less
		CFU/g, not less than, in fermented
		CFU/g, not less than, in fermented milk products (in
		CFU/g, not less than, in fermented milk products (in products with
Acidophilic microorganisms		CFU/g, not less than, in fermented milk products (in
Acidophilic microorganisms	1 x 1E7	CFU/g, not less than, in fermented milk products (in production with the use of them)
Yeast Acidophilic microorganisms  Bifidobacteria	1 x 1E7	CFU/g, not less than, in fermented milk products (in production with the use of them)
Acidophilic microorganisms	1 x 1E7	CFU/g, not less than, in fermented milk products (ir production with the use of them)

#### microorganisms

(as amended by Amendments and Additions No. 2, approved by Resolution No. 41 of Chief State Sanitary Inspector of the RF dated 15.04.2003)

#### STERILIZED FLAVOURLESS LIQUID INFANT FORMULAS

Produced in industrial	Shall satisfy requirements for
environment with UHT treatment	industrial sterilized milk in
and aseptic bottling	accordance with Annex 10

Coliform bacteria (coliforms)	3	volume (cm3), ir
		which the
		indicator is not
		allowed
E. coli	10	the same
S. aureus	10	the same
Pathogenic, including	50	the same
salmonella		
Acidophilic microorganisms	1 x 1E7	CFU/cm3, not less
		than (ir
		production with
		the use of them)
Bifidobacteria	1 x 1E6	the same
Lactic acid microorganisms	1 x 1E7	CFU/cm3, not less
		than, in fermented
		milk products
Moulds	10	CFU/cm3, not more
		than
Yeast	10	the same

# 3.1.1.2. Partially adapted infant formulas, including other formulas (powder, liquid, flavourless and fermented)

#### 1) Nutritional value (in a ready-to-eat product)

Criteria and indices	Measuremen t Units	Permissib	le levels	Notes
	CONTES	standard	marked	
1	2	3	4	5
Protein	g/l	18 - 22	+	
Milk whey proteins	% of total protein quantity	20 - 50		
Casein	the same	50 - 80	_	
Fat	g/l	25 - 38	+	
Linoleic acid	% of the sum of fatty acids, not less than		+	
the same	mg/l, not less than	5 x 1E3 -	-	
Hydrocarbons	g/l	70 - 90	+	
(as amended by Amendmer No. 41 of Chief State S				
Energy value	kcal/l	640 - 800	+	
Mineral substances:				
calcium phosphorus	mg/l the same	600 - 900 300 - 500	+ +	
potassium sodium magnesium copper	mg/l the same mg/l mkg/l the same	600 - 900 250 - 350 50 - 100 400 - 1000 30 - 80	+ + + +	
manganese	tne same	30 - 80	+	

zinc ash	the same g/l	4 - 10 4 - 5	+ +	
Vitamins:				
retinol (A)	mkg-eq/l	600 - 800	+	
tocopherol (E)	mg/l	5 - 12	+	
calciferol (D)	mkg/l	10 - 12	+	
thiamine (B1)	the same	400 - 800	+	
riboflavin (B2)	the same	600 - 1000	+	
panthotenic acid	the same	2500 - 3500	+	
pyridoxine (B6)	the same	500 - 700	+	
niacin (PP)	the same	4000 - 8000	+	
folic acid (Bc)	the same	50 - 150	+	
cyanocobalamin (B12)	the same	1.5 - 3.0	+	
ascorbic acid (C)	mg/l	50 - 100	+	
Osmolality	mOsm/kg	320 - 360	+	

2) Safety indices (in a ready-to-eat product)
(as amended by Amendments and Additions No. 2, approved by Resolution No. 41 of Chief State Sanitary
Inspector of the RF dated 15.04.2003)

Indicators	Permissible levels,	Notes
indicacors	mg/kg, not more than	110 263
	mg/kg, not more than	
1	2	3
Indications of oxidative	4.0	mmol of active
deterioration:		oxygen/kg
Peroxide value		fat
Toxic elements, antibiotics,	according to Clause	
mycotoxins, pesticides and	3.1.1.1	
radionuclides		
Dioxins	are not allowed	
(introduced by Amendments and A No. 43 of Chief State Sanitary		=
Melamine	is not allowed	< 1 mg/kg
(introduced by Amendments No.	11, Resolution No. 56	5, 5
of Chief State Sanitary Inspect		.10.2008,
Microbiological indicators:		
INSTANT FORMULAS		
QMAFAnM,	2 x 1E3	CFU/g, not more
		than, for
		formulas
		reconstituted at
		37 - 50 degrees C
	3 x 1E3	CFU/g, not more
		than, for
		formulas
		reconstituted at

Coliform bacteria (coliforms)	1.0	Mass (g) in which the indicator is not allowed
E. coli	10	the same
S. aureus	10	the same
B. cereus	100	CFU/g, not more than
Pathogenic, including	100	Mass (g) in which
salmonella and L.		the indicator is
monocytogenes		not allowed
Moulds	50	CFU/g, not more
		than
Yeast	10	the same
FORMULAS REQUIRING HEAT TREATME		
QMAFAnM,	2.5 x 1E4	CFU/g, not more than
Coliform bacteria (coliforms)	1.0	Mass (g) in which the indicator is not allowed
S. aureus	1.0	the same
B. cereus	200	CFU/g, not more than
Pathogenic, including	50	Mass (g) in which
salmonella and L.		the indicator is
monocytogenes		not allowed
Moulds	100	CFU/g, not more than
Yeast	50	the same

#### 3.1.1.3. Sterilized milk (including vitaminized milk)

#### 1) Nutritional value (in 100 g of the product)

Criteria and indices	Measureme nt Units	Permissib	ole levels	Notes
		standard	marked	1
1	2	3	4	5
Protein	g	2.8 - 3.2	+	
Fat	the same	3.2 - 3.5	+	
	not less than	2.0		prophylac tic food products
Energy value	kcal	55 - 65	+	
Ash	g	0.6 - 0.8	-	
Mineral substances:				
Calcium phosphorus Potassium Sodium	mg the same the same mg, not more than	115 - 140 90 - 120 140 - 180 60	+ + -	
Vitamins:				
Retinol (A)	mkg-eq	100 - 200	-	for vitaminiz ed products
Beta-carotene	the same	0.05 - 0.1		the same
Thiamine (B1) Riboflavin (B2) Ascorbic acid (C)	the same the same	0.1 - 0.2 0.1 - 0.2 2 - 8	- - +	the same the same
(		t dans No. 2		

(as amended by Amendments and Additions No. 2, approved by Resolution No. 41 of Chief State Sanitary Inspector of the RF dated 15.04.2003)

2) Safety indices (in a ready-to-eat product) (as amended by Amendments and Additions No. 2, approved by Resolution No. 41 of Chief State Sanitary Inspector of the RF dated 15.04.2003)

Indicators	- 1 12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Indicators	Permissible levels, Notes
	mg/kg, not more than
Indications of oxidative deterioration, toxic elements, antibiotics, mycotoxins, pesticides and radionuclides	3.1.1.1
	Shall satisfy requirements for industrial sterility for sterilized milk in accordance with Annex 8 to these Sanitary Rules
Dioxins	are not allowed < 1 mg/kg
(introduced by Amendments and A	dditions No. 10, approved by Resolution
_	Inspector of the RF dated 16.07.2008)
	is not allowed < 1 as No. 11, approved by Resolution No. sector of the RF dated 01.10.2008)

## 3.1.1.4. Liquid fermented milk products (including products with vegetable and fruit fillings)

Criteria and indices	Measureme nt Units	Permissible levels		Notes
		standard	marked	
1	2	3	4	5
Protein	g	2.0 - 3.2	+	For
	g, not more than	4.0	+	prophylac tic food products
Fat	g	2.5 - 7.0	+	
	g, not	1.5	+	For
Hydrocarbons	less than	4 - 12	_	prophylac tic food
Energy value	kcal	40 - 125	+	products
Ash	g	0.5 - 0.8	-	
Mineral substances:				
calcium	mg	60 - 140	+	
phosphorus	the same	30 - 120	-	
potassium sodium	the same mg, not more than	140 - 180 60	_	
Vitamins:				
thiamine (B1)	the same	0.05 - 0.1	+	for vitaminiz ed products
riboflavin (B2)	the same	0.1 - 0.2	+	the same
ascorbic acid (C)	the same	2 - 8	+	the same
Acidity	O T, not more than	100	-	

Indicators	Permissible levels,	Notes
	mg/kg, not more than	
Toxic elements, antibiotics, mycotoxins, pesticides and radionuclides	according to Clause 3.1.1.1	
Microbiological indicators:		
Coliform bacteria (coliforms)	3.0	volume (cm3), in which the indicator is not
E. coli	10.0	allowed the same, for products with the shelf life of more than 72 hours
S. aureus	10.0	volume (cm3), in which the indicator is not allowed
Pathogenic, including salmonella	50	the same
Yeast	10	CFU/cm3, not more than, for products with the shelf life of more than 72 hours
	1E4	for kefir
Moulds	10	CFU/cm3, not more than, for products with the shelf life of more than 72 hours
Lactic acid microorganisms	1 x 1E7	CFU/cm3, not less
Bifidobacteria	1 x 1E6	CFU/cm3, not less than; in production with
Acidophilic microorganisms	1 x 1E7	the use of them) the same
Microscopic slide	Microflora character for this type of pacells of external mid	roduct; absence of
Dioxins	not allowed	
(introduced by Amendments and A No. 43 of Chief State Sanitary		_
Melamine	not allowed	< 1 mg/kg
(introduced by Amendments No Sanitary Inspector of the RF da		56 of Chief State

#### 3.1.1.5. Curds and curd products (including products with vegetable and fruit fillings)

#### 1) Nutritional value (in 100 g of the product)

Criteria and indices	Measureme nt Units	Permissib	Permissible levels	
		standard	marked	
1	2	3	4	5
Protein	g	7 - 17	+	
Fat	the same	3.5 - 15	+	
Hydrocarbons	g, not more than	12	_	
Energy value	kcal	105 - 250	+	
Ash	g	3 - 4	-	
Mineral substances:				
Calcium	mg	150 - 200	+	
Sodium	mg, not more than	50	+	
(as amended by Amendmen	ts and Addi	tions No. 2,	approved by	Resolution
No. 41 of Chief State Sa	nitary Insp	ector of the	RF dated 15.0	04.2003)
Acidity	O T, not more than	150	+	

#### 2) Safety indices

Indicators	Permissible levels, mg/kg, not more than	Notes
1	2	3
Indications of oxidative deterioration:		
peroxide value	4.0	mmol of active oxygen/kg of fat, for products with fat content of more than 5 g/100 g and products enriched with vegetable oils
(as amended by Amendments and A No. 41 of Chief State Sanitary I		_
Toxic elements:		
Lead Arsenic Cadmium Mercury	0.06 0.15 0.06 0.015	
(as amended by Amendments and A No. 43 of Chief State Sanitary 1		_
Antibiotics, mycotoxins and radionuclides	according to Clause 3.1.1.1	

Pesticides <*>:	0.55	
hexachlorocyclohexane (alpha-,		
beta-, gamma-isomers)		
DDT and its metabolites	0.33	
Microbiological indicators:		
Coliform bacteria (coliforms)	0.3	Mass (g) in which
		the indicator is
		not allowed
E. coli	1.0	The same, for
		products with the
		shelf life of more
		than 72 hours
S. aureus	1.0	Mass (g) in which
		the indicator is
		not allowed
Pathogenic, including	50	The same
salmonella		
Yeast, CFU/g not more than	10	The same, for
		products with the
		shelf life of more
		than 72 hours
Moulds, CFU/g not more than	10	The same
(as amended by Amendments and A	Additions No. 2, appr	oved by Resolution
No. 41	5	0.000
Chief State Sanitary Inspector	of the RF dated 15.04	.2003)
Microscopic slide	Microflora character	ietic of etartore
THOUGHTO BILD	for this type of pr	
	cells of external mid	
	CCIIS OF CACCING MIC	21011014
Dioxins	not allowed	
(introduced by Amendments and A		_
No. 43 of Chief State Sanitary	Inspector of the RF d	ated 16.07.2008)

# 3.1.1.6. Dry milk used for children nutrition

## 1) Nutritional value (in 100 g of a ready-to-eat product)

Criteria and indices	Measureme nt Units	Permissible levels		Notes
		standard	marked	
1	2	3	4	5
Protein	g	2.8 - 3.2	+	
Fat	the same	3.2 - 3.5	+	
Energy value	kcal	56 - 65	+	
Mineral substances:				
Calcium	mg	115 - 140	_	
phosphorus	the same	90 - 120	-	
Potassium	the same	140 - 180	_	
Sodium	mg, not more than	60	_	

#### 2) Safety indices

Indicators	Permissible levels,	Notes
	mg/kg, not more than	
1	2	3
Indications of oxidative	according to	
deterioration, toxic elements,	Clause	
antibiotics, mycotoxins,	3.1.1.1	
pesticides and radionuclides		
Microbiological indicators:		
- for instant milk	according to	
	Clause 3.1.1.2	
- for milk that requires		
boiling after reconstitution:		
QMAFAnM,	2.5 x 1E4 1.0	CFU/g, not more
Coliform bacteria (coliforms)		than, mass (g), in which the indicator is not
S	1 0	allowed
S. aureus	1.0	the same
Pathogenic, including salmonella and L.	23	the same
monocytogenes Moulds	100	CFU/g, not more
110 4 1 4 0	100	than
Yeast	50	the same
Dioxins	not allowed	
(introduced by Amendments and A No. 43 of Chief State Sanitary I		_
Melamine	not allowed	< 1 mg/kg
(introduced by Amendments No. Sanitary Inspector of the RF dat		56 of Chief State

#### 3.1.1.7. Dry and liquid milk beverages (for children aged from 6 months to 3 years)

#### 1) Nutritional value (in 100 g of a ready-to-eat product)

Criteria and indices	Measuremen t Units	Permissible levels		Notes
		standard	marked	
1	2	3	4	5
Protein	g	2.0 - 5.0	+	
Fat	the same	1.0 - 4.0	+	
Hydrocarbons	the same	7.0 - 12.0	+	
Energy value	kcal	45 - 105		
Mineral substances:				
calcium	mg	105 - 240	+	
phosphorus	the same	65 - 180	+	
potassium	the same	105 - 180	_	
iron	the same	1 - 2	-	for enriched products

(as amended by Amendments and Additions No. 2, approved by Resolution No. 41 of Chief State Sanitary Inspector of the RF dated 15.04.2003) Vitamins: retinol (A) 80 - 120 mkg-eq for vitaminiz ed products tocopherol (E) 0.7 - 1.2the same mg the same 5 - 15 the same ascorbic acid (C) thiamine (B1) the same 0.2 - 0.5 the same the same 0.2 - 0.5 riboflavin (B2) the same (as amended by Amendments and Additions No. 2, approved by Resolution No. 41 of Chief State Sanitary Inspector of the RF dated 15.04.2003)

#### 2) Safety indices

QMAFAnM,

1 Indications of oxidative deterioration, toxic elements,	3.1.1.1	3
Indications of oxidative deterioration, toxic elements,	according to Clause	-
Indications of oxidative deterioration, toxic elements,	according to Clause	-
deterioration, toxic elements,	3.1.1.1	for dry beverages
antibiotics, mycotoxins, pesticides and radionuclides		- in terms of reconstituted product
Microbiological indicators:		
LIQUID BEVERAGES	1	
QMAFAnM,	1.5 x 1E4	CFU/cm3, not more than
Coliform bacteria (coliforms)	0.1	volume (cm3), in which the indicator is not allowed
E. coli	1.0	the same, for products with the shelf life of more than 72 hours
S. aureus	1.0	volume (cm3), in which the indicator is not allowed
Pathogenic, including salmonella and L. monocytogenes	50	the same
Yeast	50	CFU/cm3, not more than, for products with the shelf life of more than 72 hours
Moulds	50	the same
DRY DRINKS REQUIRING HEAT TREA		UTION

(as amended by Amendments and Additions No. 2, approved by Resolution No. 41 of Chief State Sanitary Inspector of the RF dated 15.04.2003)

 $2.5 \times 1E4$ 

CFU/cm3, not more

than

Coliform bacteria (coliforms)	1.0	Mass (g) in which		
		the indicator is		
		not allowed		
S. aureus	1.0	the same		
Pathogenic, including	25	the same		
salmonella				
Moulds	100	CFU/g, not more		
Yeast	50	than		
		the same		
- DRY INSTANT BEVERAGES	according to Clause	Instant formulas		
	3.1.1.2			
(introduced by Amendments and A	l Additions No. 2 appr	l coured by Resolution		
No. 41 of Chief State Sanitary		-		
No. 41 Of Chief State Sanitary	inspector of the Kr da	ated 13.04.2003)		
Dioxins	not allowed			
(introduced by Amendments and Additions No. 10, approved by Resolution				
No. 43 of Chief State Sanitary Inspector of the RF dated 16.07.2008)				
	1, 11, 11, 11, 11, 11, 11, 11, 11, 11,			

Melamine not allowed < 1 mg/kg

(introduced by Amendments No. 11, Resolution No. 56 of Chief State Sanitary Inspector of the RF dated 01.10.2008)

#### 3.1.2. Cereal-Based Complementary Feeding Products

#### 3.1.2.1. Flour and grain requiring cooking

Criteria and indices	Measureme nt Units	Permissible levels		Notes
		standard	marked	
1	2	3	4	5
Moisture	g, not more than	9	-	
Protein	g	7 - 14	+	
Fat	the same	0.5 - 7.0	+	
Hydrocarbons	the same	70 - 85	+	
Energy value	kcal	310 - 460	+	
Ash	g	0.5 - 2.5	_	
Mineral substances:				
sodium	mg, not more than	25	_	
iron	mg	1 - 8	_	

	T.	
Indicators	Permissible levels,	Notes
	mg/kg, not more than	
	, , , , , , , , , , , , , , , , , , ,	
1	2	3
Toxic elements:		
TOXIC CICINCIICS.		
lead	0.3	
arsenic	0.2	
cadmium	0.06	
mercury	0.02	
Mercury	0.02	
Mycotoxins:		
aflatoxin B1	not allowed	< 0.00015
dezoxynivalenol	not allowed	< 0.05 for wheat,
		barley flour
zearalenone	not allowed	< 0.0 05 for
		maize, wheat,
		barley flour
		_
T-2 toxin	not allowed	< 0.05
Pesticides:		
resticides:		
hexachlorocyclohexane (alpha-,	0.01	
beta-, gamma-isomers)		
beca , gamma isomers,		
DDT and its metabolites	0.01	
hexachlorobenzene	0.01	
mercury organic pesticides	not allowed	
2, 4-D acid, its salts and	not allowed	
esters		
Benz(a)pyrene	not allowed	< 0.2 mkg/kg
Radionuclides (in a ready-to-		
eat product):		
eat producty.		
caesium-137	40	Bq/kg
Strontium-90	25	the same
(as amended by Amendments and A	Additions No. 2, appr	oved by Resolution
No. 41 of Chief State Sanitary		
	1	•
Harmful contaminants:		
Pest contamination and	not allowed	
infestation of grain (insects,		
mites)		
Metallic impurities	3 x 1E4	%; size of
110001110 Impatitutes		
		separate
		particles shall
		not exceed 0.3 mm
		in the largest
		linear
		measurement
Microbiological indicators:		
QMAFAnM,	5 x 1E4	CFU/q, not more
Zimit Milit	2 V IE4	than
Coliform bacteria (coliforms)	0.1	Mass (g) in which
JOILIOIM DACCELLA (COLLIOIMS)	V.1	_
		the indicator is
		not allowed
Pathogenic, including	25	the same
salmonella		
Moulds	200	CFU/g, not more
		than
Yeast	100	the same

ochratoxin A	not allowed	< 0.0005 for all types
(introduced by Amendments and Amendments and Amendments and Additional Chief State Sanitary Inspections)	Inspector of the RF cions No. 18, approved	lated 16.07.2008 as by Resolution No.
fumonisins B1 and B2	0.2	for maize flour
(introduced by Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendments and Amendm		-

# 3.1.2.2. Dry milk free instant porridges (kashas) (of instant cooking)1) Nutritional value (in 100 g of the product)

Criteria and indices	Measureme nt Units	Permissib	le levels	Notes
		standard	marked	
1	2	3	4	5
Moisture	g	4 - 6	_	
Protein	g, not less than	4.0	+	
Fat	(g), not more than	12.0	+	
Hydrocarbons	the same	70 - 85	+	
Energy value	kcal	315 - 480	+	
Ash	g	0.5 - 3.5	_	
(as amended by Amendmen No. 41 of Chief State Sa				
Mineral substances:				
sodium	mg, not more than	30	+	
calcium	mg	300 - 600	+	for enriched products
iron	the same	5 - 12	+	the same
iodine	mkg	40 - 80	+	for
				enriched products
(introduced by Amendmen No. 71 of Chief State Sa				
Vitamins: thiamine (B1)	mg	0.2 - 0.6	+	for vitaminiz ed products
Riboflavin (B2) niacin (PP)	the same	0.3 - 0.8	+ +	the same

the same

mkg-eq

mg

ascorbic acid (C)

retinol (A)

tocopherol (E)

30 - 100

300 - 500

5 - 10

the same

the same

the same

Total	T	27 - 4
Indices	Permissible levels,	Notes
	mg/kg, not more than	
Toxic elements, mycotoxins, pesticides, benz(a)pyrene, radionuclides and pest infestation and contamination of grain (insects, mites) and metallic impurities	3.1.2.1	
(as amended by Amendments and A No. 43 of Chief State Sanitary :		-
Microbiological indicators:		
QMAFAnM,	1 x 1E4	CFU/g, not more than
Coliform bacteria (coliforms)	1.0	mass (g) in which the indicator is not allowed
Pathogenic, including salmonella	50	the same
B. cereus	200	CFU/g, not more than
Moulds,	100	the same
Yeast	50	the same

## 3.1.2.3. Dry milk instant porridges (kashas) requiring cooking

Criteria and indices	Measureme nt Units	Permissible levels		Notes
		standard	marked	
1	2	3	4	5
Moisture	g, not more than	8	+	
Protein	g	12 - 20	+	
Fat	the same	10 - 18	+	
Hydrocarbons	the same	60 - 70	+	
Energy value	kcal	380 - 520	+	
Ash	g	2.5 - 3.5	-	
Mineral substances:				
sodium	mg, not more than	500	+	
calcium	mg	400 - 600	+	for enriched products
iron	the same	6 - 10	+	the same
Vitamins:				
thiamine (B1)	mg	0.2 - 0.6	+	for vitaminiz ed products
Riboflavin (B2)	the same	0.4 - 0.8	+	the same
niacin (PP)	the same	4 - 8	+	the same
retinol (A)	mkg-eq	300 - 500	+	the same
tocopherol (E)	mg	5 - 10	+	the same
ascorbic acid (C)	the same	30 - 100	+	the same

#### 2) Safety indices

(part 2 as amended by Amendments and Additions No. 2, approved by Resolution No. 41 of Chief State Sanitary Inspector of the RF dated 15.04.2003)

Indices	Permissible	Note
11102000	levels,	1.000
	mg/kg, not	
	more than	
Toxic elements:		
lead	0.3	
arsenic	0.2	
cadmium	0.06	
mercury	0.03	
Antibiotics <*>:	<u> </u>	
laevomycetin (chloramphenicol)	0.01	Expiring on 01.01.2012.
	0.0003	Shall become effective since 01.01.2012.
tetracycline group	0.01	
penicillins	0.004	
streptomycin	0.2	
(as amended by Amendments No. 24, a Chief State Sanitary Inspector Mycotoxins:		
aflatoxin B1	not allowed	< 0,00015
aflatoxin M1	not allowed	< 0,00002
dezoxynivalenol	not allowed	< 0,05 for wheat, barley porridges
zearalenone	not allowed	< 0,0 05 for maize, wheat, barley porridges
T-2 toxin	not allowed	< 0,05
Pesticides <**>:	L	
hexachlorocyclohexane (alpha-, beta-	0.01	
, gamma isomers)	0.01	
DDT and its metabolites  Benz(a)pyrene	0.01 not allowed	< 0,2 mkg/kg
Zenz (a) pyrene	not allowed	, o, z m.g, .g

Dioxins	not allowed	
(introduced by Amendments and Addition No. 43 of Chief State Sanitary Inspec		-
Melamine	not allowed	< 1 mg/kg
(introduced by Amendments No. 11, ap of Chief State Sanitary Inspector of		
Radionuclides (in terms of	ready-to-eat ]	product):
caesium-137	40	Bq/l
Strontium-90	25	the same
Pest contamination and infestation of grain (insects, mites) and metallic impurities	_	
(as amended by Amendments and Addition No. 43 of Chief State Sanitary Inspec		-

## 3.1.2.4. Dry milk instant porridges (kashas) (of instant cooking)

Criteria and indices	Measurement Units	Permissible levels		Notes
		standard	marked	
1	2	3	4	5
rotein	g	12 - 20	+	
	g, not less	7	+	in porridg s requiri g reconst tution with whole c partial y diluted cows milk
Fat	g g, not less	10 - 18	+	in porridg s on the
	than			whole milk, the mas fractic of which is less than 25 if butter or oil is added in reconst tuted porride

	the same	0.5		in porridges on skimmed milk if reconstit uted with whole milk or if butter or oil is added into reconstit uted porridge
Hydrocarbons	the same	60 - 70	+	
Energy value	kcal	380 - 520	+	
	according to Clause 3.1.2.3			
Vitamins:	the same			

#### 2) Safety indices

Indices	Permissible levels,	Notes
	mg/kg, not more than	
Toxic elements, mycotoxins,	according to Clause	
	3.1.2.3	
benz(a)pyrene		
	11	
	according to Clause	
contamination and infestation	3.1.2.1	
of grain (insects, mites) and		
metallic impurities		
(as amended by Amendments and A	dditions No. 10 appi	roved by Resolution
No. 43 of Chief State Sanitary I		-
No. 45 of Chief State Sanitary 1	inspector of the Kr d	ated 10.07.2000)
Microbiological indicators:		
		ļ ,
QMAFAnM,	1 x 1E4	CFU/g, not more
		than
Coliform bacteria (coliforms)	1.0	mass (g) in which
		the indicator is
		not allowed
S. aureus	1.0	the same
B. cereus	- * *	CFU/g, not more
	- 4 1	than
Dathanania inaludina	50	the same
Pathogenic, including	30	che same
salmonella and L.		

monocytogenes Moulds, Yeast	100 50	CFU/g, than	not	more
Dioxins (introduced by Amendments and A No. 43 of Chief State Sanitary I		_		
Melamine (introduced by Amendments No. Chief State Sanitary Inspector		lution No	< 1 m	٠. ر

#### 3.1.2.5. Soluble biscuits

Criteria and indices	Measuremen t Units	Permissible levels		Notes
		standard	marked	
1	2	3	4	5
Protein	g	5 - 11	+	
Fat	the same	6 - 12	+	
Hydrocarbons Energy value	the same kcal	65 - 80 330 - 440	+ +	
Mineral substances:				
Sodium Calcium	mg the same	300 - 500 300 - 600	+ +	for enriched products
Iron	the same	10 - 18	+	the same
Vitamins:				
Thiamine (B1)	mg	0.3 - 0.6	+	for vitaminiz ed products
Riboflavin (B2)	the same	0.3 - 0.8	+	the same
Niacin (PP)	the same	4 - 9	+	the same
Ascorbic acid (C)	the same	20 - 50	+	the same

#### 2) Safety indices

Indices	Permissible levels,	Notes
	mg/kg, not more than	
Toxic elements, mycotoxins, pesticides, benz(a)pyrene	according to Clause 3.1.2.3	
Radionuclides	according to Clause 3.1.2.1	
Microbiological indicators:		
QMAFAnM,		CFU/g, not more than
Coliform bacteria (coliforms)		mass (g) in which the indicator is not allowed
Pathogenic, including salmonella	50	the same
Moulds,		CFU/g, not more
Yeast	50	the same
Pest contamination and infestation of grain (insects, mites) and metallic impurities	according to Clause 3.1.2.1	
(introduced by Amendments and A	dditions No. 10 anns	I corred by Decelution

(introduced by Amendments and Additions No. 10, approved by Resolution No. 43 of Chief State Sanitary Inspector of the RF dated 16.07.2008)

# 3.1.3. Fruit-and-Vegetable-Based Products, Fruit-and-Vegetable Canned Foods (Fruit, Vegetable and Fruit and Vegetable Juices, Nectars and Drinks; Fruit Waters; Puree;

Fruit and Milk, and Fruit and Grain Puree)
(as amended by Amendments and Additions No. 18, approved by Resolution No. 71

of Chief State Sanitary Inspector of the RF

Criteria and indices	Measuremen t Units	Permissible levels		Notes
		standard	marked	
1	2	3	4	5
Mass fraction of	%	4 - 16	-	for
soluble dry substances				juice
				products
				from
				fruit,
				fruit
				with
				addition
				of
				vegetabl
				es,
				vegetabl
				es,
				vegetabl
				es with
				addition
	9/0			of fruit
	/0	4 - 10	-	for
				juice
				1

				products
				from
				vegetabl s an
				with
				addition
				of fruit
	0 0	4 - 11		for juic
				products
				from
				carrot
				and
				pumpkin
(as amended by Amendmer No. 71 of Chief State S				
		4 - 25	I dated 20.	for
Mass fraction of dry substances		4 - 25	_	puree
		 		-
(as amended by Amendmer No. 71 of Chief State S				
Mass fraction of	° q	1.2		for
titratable acids	not more			juice
	than			products
				from
				citruses
				(in
				terms of
				water-
				free
				citric
				acid)
	the same	0.8	_	for
				juice
				products
				from
				other
				fruit
				and (or)
				vegetabl
				es (in
				terms of
				apple acid)
(an amandad law 2		hione Man 10		
(as amended by Amendmer No. 71 of Chief State S				
Motol ocidita	0	0.0		
Total acidity	° g	0.8	_	
	not more than			
Hydrocarbons,	g	3 - 25	+	added
including added sugar				sugar i
				not
				allowed
				for
	1			juices
			_	for
	g,	10		
		10		nectars
	not more	10		
		10		nectars
	not more	10		nectars and juice
	not more	10		nectars and

	g, not more	12	_	for fruit
	than			
(introduced by Amendment No. 43 of Chief State S				
as amended by Amendments				
No. 71 of Chief State Sa	nitary Insp	ector of the	RF dated 28.0	06.2010)
  Sodium chloride	0	0.4	I	save
	not more than			tomato
	Ciiaii			juice
	o not more	0.6	-	for
	than			tomato
				juice
Proteins	g, not less	0.5		for fruit
	than			and milk, and fruit
				and
				cereal
				puree
Mass fraction of	0	0.2		for fruit
ethanol	not more than			juices
	CIIGII			and puree
(as amended by Amendment No. 41 of Chief State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State S	Sanitary In: Resolution	spector of th No. 71 of	ne RF dated 1	5.04.2003,
Mineral substances:				
potassium	_	70 - 300,	+	
sodium	mg, not more than	200		
iron	mg,	3.0		
	no+ more	5.0	+	for
	not more	3.0	+	for enriched
	than	3.0	+	_
(as amended by Amendment No. 71 of Chief State Sa	than s and Addit	tions No. 18,	approved by	enriched products Resolution
_	than s and Addit	tions No. 18,	approved by	enriched products Resolution
No. 71 of Chief State Sa	than s and Addit nitary Insp mg,	tions No. 18,	approved by	enriched products Resolution
No. 71 of Chief State Sa Vitamins:	than  s and Addit nitary Insp  mg, not more	tions No. 18, ector of the	approved by RF dated 28.0	enriched products Resolution 6.2010)  for enriched
No. 71 of Chief State Sa Vitamins:	than s and Addit nitary Insp mg,	tions No. 18, ector of the	approved by RF dated 28.0	enriched products Resolution 6.2010)
No. 71 of Chief State Sa Vitamins:	than  s and Addit nitary Insp  mg, not more than	tions No. 18, ector of the	approved by RF dated 28.0	enriched products Resolution 6.2010)  for enriched products
No. 71 of Chief State Sa Vitamins:	than  s and Addit nitary Insp  mg, not more	tions No. 18, ector of the	approved by RF dated 28.0	enriched products Resolution 6.2010)  for enriched products at the
No. 71 of Chief State Sa Vitamins:	than  s and Addit nitary Insp  mg, not more than  mg,	tions No. 18, ector of the	approved by RF dated 28.0	enriched products Resolution (6.2010)  for enriched products  at the end of
No. 71 of Chief State Sa Vitamins:	mg, not more than	tions No. 18, ector of the	approved by RF dated 28.0	enriched products Resolution (6.2010)  for enriched products  at the end of
No. 71 of Chief State Sa  Vitamins: ascorbic acid (C)  (as amended by Amendment	mg, not more than  mg, not less than	tions No. 18, pector of the 75.0	approved by RF dated 28.0	enriched products Resolution 6.2010)  for enriched products  at the end of the shelf life Resolution
No. 71 of Chief State Sa  Vitamins: ascorbic acid (C)	mg, not more than  mg, not less than	tions No. 18, pector of the 75.0	approved by RF dated 28.0	enriched products Resolution 6.2010)  for enriched products  at the end of the shelf life Resolution

Indices	Permissible levels	Notes
	mg/kg, not more tha	n
1	2	3
Toxic elements:		
Lead	0.3	
Arsenic	0.1	
(as amended by Amendments and No. 71 of Chief State Sanitar		
Cadmium Mercury	0.02	
Mycotoxins:		
Patuline	not allowed	< 0,02, for products containing apples, tomatoes, sea-buckthorn
Dezoxynivalenol	not allowed	< 0,05 for fruit and cereal puree, containing wheat, barley flour
Zearalenone	not allowed	< 0,005 for fruit and cereal puree containing wheat, maize, barley flour
Aflatoxin M1	not allowed	< 0,00002 for fruit and milk puree
ochratoxin A	not allowed	<pre>&lt; 0,0005 for products containing wheat, rye, barley, oat,</pre>
(introduced by Amendments and No. 43 of Chief State Sanitar		
Aflatoxin B1	not allowed	< 0,00015 for fruit and cereal puree
Pesticides <**>:		•
hexachlorocyclohexane (alpha beta-, gamma isomers)	0.01	
DDT and its metabolites	0.005	
Nitrates:	50	on fruit basis
(as amended by Amendments and	200	containing bananas and strawberry) on vegetable, and fruit and vegetable basis, also for containing bananas
No. 71 of Chief State Sanitar		

5-Oxymethylfurfurol	20.0	for juice products		
(introduced by Amendments and Additions No. 18, approved by Resolutio No. 71 of Chief State Sanitary Inspector of the RF dated 28.06.2010)				
5-Oxymethylfurfurol	according to Clause 2.2	for fruit juices and nectars		
Radionuclides:				
caesium-137 Strontium-90 (as amended by Amendments and A No. 71 of Chief State Sanitary 1		-		
Microbiological indicators	Shall satisfy requir industrial sterility of corresponding gro with Annex 8	for canned food		

#### 3.1.4. Meat-Based Complementary Feeding Products

#### 3.1.4.1. Canned food from meat (beef, pork, mutton, poultry, etc.), including with addition of by-products

Criteria and indices	Measuremen t Units	Permissible levels		Notes
		standard	marked	
Mass fraction of dry	g,	20	-	
substances	not less than			
	the same	17	_	canned food from poultry
Protein	g	8.5 - 15	+	pourory
	g,	7	+	canned food
	not less than			from poultry
Fat	the same	3 - 12	+	
Energy value	kcal	80 - 180	+	
Sodium chloride	g,	0.4	+	
	not more than			
Iron	mg	1 - 5	+	in iron- enriched canned food
Vitamins:		according to		
		Clause 3.1.4.3		
Starch	g,	3	_	as a
	not more than			thickenin g agent
Rice and wheat flour	g,	5		the same
	not more			

Indices	Permissible levels,	Notes
	mg/kg, not more than	
1	2	3
Toxic elements:		
lead	0.2	
arsenic	0.1	
cadmium	0.03	
mercury	0.02	
stannum	100	for canned food in
		assembled tin
		containers
Antibiotics <*>:		
laevomycetin (chloramphenicol)	0.01	Expiring on
,		01.01.2012.
		01.01.2012.
	0.0003	Shall become
		effective since
		01.01.2012.
tetracycline group	0.01	
1	0.00	
bacitracin	0.02	
(as amended by Amendments No. Chief State Sanitary Inspector		
Pesticides <**>:		
hexachlorocyclohexane (alpha-,		
beta-, gamma isomers)	0.02 0.01	
DDT and its metabolites		
Nitrates:	not allowed	< 0,5
	-	,
Nitrosamines:	not allowed	< 0,001
sum of N-Nitrosodimethylamine		
and N-Nitrosodiethylamine		
(introduced by Amendments and A		
No. 41 of Chief State Sanitary 3	Inspector of the RF d	ated 15.04.2003)

Amendments and Additions No. 18, approved by Resolution No. 71 of Chief State
Sanitary Inspector of the RF dated 28.06.2010 in Clause 3.1.4. in section "2) Safety indices" the standards of permissible levels of radionuclides in the line
"strontium-90" have been changed from 40 to 25.

Radionuclides: caesium-137 Strontium-90 (as amended by Amendments and A No. 71 of Chief State Sanitary		-
Microbiological indicators	Shall satisfy requirements for industrial sterility for canned food of group "A" in accordance with Annex 8 to these Sanitary Rules	
Dioxins	not allowed	
(introduced by Amendments and Additions No. 10, approved by Resolution No. 43 of Chief State Sanitary Inspector of the RF dated 16.07.2008)		

#### 3.1.4.2. Meat-Based Pasteurized Sausages (for Children of 1.5 Year Old and Older)

#### 1) Nutritional value (in 100 g of the product)

Criteria and indices	Measuremen t Units	Permissible levels		Notes
	C OHIES	standard	marked	
Protein	g, not less	12	+	
Fat	than g	16 - 20	+	
Sodium chloride	g, not more	1.5	+	
Energy value	than kcal	180 - 240	+	
(as amended by Amendme	nts and Addi	tions No. 2,	approved by	Resolution

(as amended by Amendments and Additions No. 2, approved by Resolution No. 41 of Chief State Sanitary Inspector of the RF dated 15.04.2003)

#### 2) Safety indices

Indices	Permissible levels, mg/kg, not more than	Notes
Toxic elements, antibiotics, pesticides, nitrites, nitrosamines:	according to Clause 3.1.4.1	
Radionuclides:	according to Clause 3.1.4.1	
Microbiological indicators:		
QMAFAnM, Coliform bacteria (coliforms)	2 x 1E2 1.0	CFU/g, not more than, mass of product (g), in which the indicator is not
Pathogenic, including	50	allowed the same
Sulfite-reducing clostridia	0.1	the same
B. cereus	1.0	the same
Dioxins	not allowed	
(introduced by Amendments and A No. 43 of Chief State Sanitary		

#### 3.1.4.3. Meat and Vegetable Canned Food (Vegetable and Meat Canned Food)

Criteria and indices	Measuremen	Permissih	le levels	Notes
criteria and indices	t Units	reimibbible revers		Notes
		standard	marked	
1	2	3	4	5
Mass fraction of dry	g	5 - 26	-	
substances				
(as amended by Amendmer No. 71 of Chief State S				
Protein	g	1.5 - 8.0	+	
(as amended by Amendmer	   Is and Addi	l tions No. 18.	l approved by	l Resolution
No. 71 of Chief State S				
Fat	the same	1 - 6	+	
Hydrocarbons	the same	5 - 15	+	
Energy value	kcal	40 - 140	+	
Sodium chloride	g,	0.4	+	
Iron	not more than mg	0.5 - 3.0	+	for enriched products
Vitamins:				
beta-carotene	mg	1 - 3		for vitaminiz ed products
Thiamine (B1)	mg	0.1 - 0.2	_	the same
Riboflavin (B2)	the same	0.1 - 0.3	-	the same
Niacin (PP)	the same	1 - 4	-	the same
Starch  Rice and wheat flour	g, not more than	5		added as a thickeni ng agent the same
	not more than			

Indices	Permissible levels,	Notes
	mg/kg, not more than	
1	2	3
Toxic elements:		
lead	0.3	
arsenic	0.2	
cadmium	0.03	
mercury	0.02	
stannum	100	for canned food ir
	100	assembled tir
Antibiotics <*>:		
laevomycetin (chloramphenicol)	0.01	Expiring on 01.01.2012.
	0.0003	Shall become effective since 01.01.2012.
tetracycline group	0.01	
bacitracin	0.02	
(as amended by Amendments No. Chief State Sanitary Inspector		
Mycotoxins:		
Patuline	not allowed	< 0.02, for
		products containing tomatoes
Aflatoxin B1	not allowed	< 0.00015, for products
Dezoxynivalenol	not allowed	<pre>containing cereal   &lt; 0.05 for canned food containing wheat, barley</pre>
ochratoxin A	not allowed	flour < 0.0005 for all types
(introduced by Amendments and A No. 43 of Chief State Sanitary as amended by Amendments and A No. 71 of Chief State Sanitary	Inspector of the RF dditions No. 18, appr	roved by Resolution dated 16.07.2008,
Zearalenone	not allowed	< 0.0 05 for
		products containing wheat, barley, maize flour
T-2 toxin	not allowed	< 0.05, for products containing cereal
Pesticides <**>:		
hexachlorocyclohexane (alpha-, beta-, gamma isomers) DDT and its metabolites	0.02 0.01	
Nitrates	150	for canned food containing
		vegetables

Nitrites	not allowed	< 0,5
Nitrosamines:	not allowed	< 0.001
sum of N-Nitrosodimethylamine		
and N-Nitrosodiethylamine		

Amendments and Additions No. 18, approved by Resolution No. 71 of Chief State Sanitary Inspector of the RF dated 28.06.2010 in Clause 3.1.4. in section "2) Safety indices" the standards of permissible levels of radionuclides in the line "strontium-90" have been changed from 40 to 25.

Radionuclides:			
caesium-137	40	Bq/kg	
Strontium-90	30	the same	
(as amended by Amendments and A No. 71 of Chief State Sanitary I		-	
Microbiological indicators	Shall satisfy requir industrial sterility of group "A" in acco 8	for canned food	
Dioxins	not allowed		
(introduced by Amendments and Additions No. 10, approved by Resolution No. 43 of Chief State Sanitary Inspector of the RF dated 16.07.2008)			

#### 3.1.5. Fish-Based Complementary Feeding

#### 3.1.5.1. Fish Canned Food Products

Criteria and indices	Measuremen t Units	Permissible levels		Notes
		standard	marked	
Mass fraction of dry substances	g	15 - 25	-	
Protein	q	8 - 15	+	
Fat	the same	5 - 11	+	
Energy value	kcal	100 - 155	+	
Sodium chloride	g,	0.4	+	
	not more than			
Mineral substances:				
iron	the same	0.4 - 3.0	+	for enriched products
Vitamins:				
thiamine (B1)	mg	0.1 - 0.2	+	for enriched products
riboflavin (B2)	the same	0.1 - 0.3	+	the same
niacin (PP)	the same	1 - 4	+	the same
starch	g,	3	-	added as
rice and wheat flour	not more than	5	, ,	a thickeni ng agent the same
rise and wheat from	not more		-	

Indices	Permissible levels,	Notes
	mg/kg, not more than	
Toxic elements:		
Lead	0.5	
Arsenic	0.5	
Cadmium	0.1	
Mercury	0.15	
Stannum	100	for canned food in
		assembled tin
		containers
Pesticides <**>:		
hexachlorocyclohexane (alpha-,	0.02	
beta-, gamma isomers)	0.02	
Deta , gamma isomeis)		
DDT and its metabolites	0.01	
Deliveble sine to debig be appeared.	0.5	
Polychlorinated biphenyls	0.5	
Histamine	100	tuna, mackerel,
		salmon, herring
(as amended by Amendments and A	I Additions No. 2, appr	I coved by Resolution
No. 41 of Chief State Sanitary		_
Nitrosamines	not allowed	< 0.001
Radionuclides:		
caesium-137	100	Bq/kg
Strontium-90	60	the same
Minushia lauta al de disat	Chall askis for a	
Microbiological indicators	Shall satisfy requir	
	industrial sterility	
	of group "A" in acco	ruance with Annex
Dioxins	not allowed	
(introduced by Amendments and A		_
No. 43 of Chief State Sanitary 1	Inspector of the RF d	ated 16.07.2008)

#### 3.1.5.2. Fish and Vegetable Canned Food

Criteria and indices	Measureme nt Units	Permissible levels		Notes
		standard	marked	
Mass fraction of dry substances	g, not less than	17	-	
(as amended by Amendment No. 71 of Chief State Sa				
Protein Fat Energy value	g the same kcal	1.5 - 6 1 - 6 35 - 120	+ + +	
Sodium chloride	g, not more than	0.4	+	
Mineral substances:				
Iron	the same	according to Clause 3.1.5.1	-	
Vitamins:		according to		
		Clause 3.1.5.1		
Starch	g, not more than	3	-	added as a thickeni ng agent
Rice and wheat flour	g, not more than	5	-	the same

Indices	Permissible levels,	Notes
	mg/kg, not more than	
Toxic elements:		
Lead	0.4	
Arsenic	0.2	
Cadmium	0.04	
Mercury	0.05	
stannum	100	for canned food in
		assembled tin
		containers
Mycotoxins	according to Clause	
	3.1.4.3	
Pesticides <**>:		
	0.02	
hexachlorocyclohexane (alpha-, beta-, gamma isomers)	0.02	
beta-, gamma isomeis)		
DDT and its metabolites	0.01	
Polychlorinated biphenyls	0.2	
II chamina	4.0	
Histamine	40	tuna, mackerel,
		salmon, herring
(as amended by Amendments and	Additions No. 2, app	roved by Resolution
No. 41 of Chief State Sanitary	Inspector of the RF of	lated 15.04.2003)
Nitrates	150	for canned food
		containing
		containing vegetables
Nitrosamines	not allowed	containing vegetables < 0.001
Nitrosamines	not allowed	vegetables
Nitrosamines Radionuclides:	not allowed	vegetables
	not allowed	vegetables < 0.001
Radionuclides:		vegetables
Radionuclides: caesium-137 Strontium-90	100 60	vegetables < 0.001  Bq/kg the same
Radionuclides: caesium-137	100 60 Shall satisfy requir	vegetables < 0.001  Bq/kg the same rements for
Radionuclides: caesium-137 Strontium-90	100 60 Shall satisfy required industrial sterility	vegetables < 0.001  Bq/kg the same rements for y for canned food
Radionuclides: caesium-137 Strontium-90	100 60 Shall satisfy required industrial sterility of group "A" in accordance.	vegetables < 0.001  Bq/kg the same  rements for y for canned food ordance with Annex
Radionuclides: caesium-137 Strontium-90	100 60 Shall satisfy required industrial sterility	vegetables < 0.001  Bq/kg the same  rements for y for canned food ordance with Annex
Radionuclides: caesium-137 Strontium-90	100 60 Shall satisfy required industrial sterility of group "A" in accordance.	vegetables < 0.001  Bq/kg the same  rements for y for canned food ordance with Annex
Radionuclides: caesium-137 Strontium-90	100 60 Shall satisfy required industrial sterility of group "A" in accordance.	vegetables < 0.001  Bq/kg the same  rements for y for canned food ordance with Annex
Radionuclides: caesium-137 Strontium-90 Microbiological indicators  Dioxins	100 60  Shall satisfy require industrial sterility of group "A" in access to these Sanitary not allowed	vegetables < 0.001  Bq/kg the same  rements for y for canned food ordance with Annex Rules
Radionuclides: caesium-137 Strontium-90 Microbiological indicators  Dioxins (introduced by Amendments and A	100 60  Shall satisfy requires industrial sterility of group "A" in access to these Sanitary not allowed additions No. 10, app	vegetables < 0.001  Bq/kg the same rements for y for canned food ordance with Annex Rules  roved by Resolution
Radionuclides: caesium-137 Strontium-90 Microbiological indicators  Dioxins (introduced by Amendments and A	100 60  Shall satisfy requires industrial sterility of group "A" in access to these Sanitary not allowed additions No. 10, app	vegetables < 0.001  Bq/kg the same rements for y for canned food ordance with Annex Rules  roved by Resolution
Radionuclides: caesium-137 Strontium-90  Microbiological indicators  Dioxins (introduced by Amendments and A	100 60  Shall satisfy required industrial sterility of group "A" in account and account and account and allowed additions No. 10, app. Inspector of the RF of	vegetables < 0.001  Bq/kg the same  rements for y for canned food ordance with Annex Rules  roved by Resolution lated 16.07.2008)
Radionuclides: caesium-137 Strontium-90  Microbiological indicators  Dioxins (introduced by Amendments and A	100 60  Shall satisfy required industrial sterility of group "A" in account and account and account and allowed additions No. 10, app. Inspector of the RF of	vegetables < 0.001  Bq/kg the same  rements for y for canned food ordance with Annex Rules  roved by Resolution lated 16.07.2008)
Radionuclides: caesium-137 Strontium-90  Microbiological indicators  Dioxins (introduced by Amendments and A	100 60  Shall satisfy required industrial sterility of group "A" in account and account and account and allowed additions No. 10, app. Inspector of the RF of	vegetables < 0.001  Bq/kg the same rements for y for canned food ordance with Annex Rules  roved by Resolution lated 16.07.2008)
Radionuclides: caesium-137 Strontium-90  Microbiological indicators  Dioxins (introduced by Amendments and Ano. 43 of Chief State Sanitary Antibiotics <*> (for pond fish tetracycline group	100 60  Shall satisfy required industrial sterility of group "A" in account and allowed additions No. 10, approximately Inspector of the RF of and fish of cage cultications of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the countr	vegetables < 0.001  Bq/kg the same  rements for y for canned food ordance with Annex Rules  roved by Resolution lated 16.07.2008)  The provided by the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the
Radionuclides: caesium-137 Strontium-90  Microbiological indicators  Dioxins (introduced by Amendments and Ano. 43 of Chief State Sanitary  Antibiotics <*> (for pond fish	100 60  Shall satisfy required industrial sterility of group "A" in account and additions No. 10, approved in the RF of and fish of cage cult 0.01 24, approved by Re	vegetables < 0.001  Bq/kg the same  rements for y for canned food ordance with Annex Rules  roved by Resolution lated 16.07.2008)  ure fishery):

#### 3.1.6. Children Herbal Instant Tea

#### 1) Nutritional value (in 100 g of the product)

Criteria and indices	Measuremen t Units	Permissib	le levels	Notes
		standard	marked	
Hydrocarbons	g	85 - 96	+	
Energy value	kcal	340 - 385	+	

#### 2) Safety indices (in a ready-to-eat product)

Indices	Permissible levels,	Notes
	mg/kg, not more than	
1	2	3
Toxic elements:		
lead	0.02	
(as amended by Amendments and A No. 71 of Chief State Sanitary		
arsenic	0.05	
cadmium	0.02	
mercury	0.005	
Pesticides <**>:		
hexachlorocyclohexane (alpha-,	0.02	
beta-, gamma isomers)		
DDT and its metabolites	0.01	
Radionuclides:		
caesium-137	40	Bq/l
Strontium-90	25	the same
Microbiological indicators:		
QMAFAnM,	5 x 1E3	CFU/g, not mo
Coliform bacteria (coliforms)	1.0	mass (g) in whi
B. cereus	100	not allowed CFU/g, not mot than
Pathogenic, including salmonella	25	the same
Moulds,	50	CFU/g, not mo
Yeast	50	the same

<*> It is also required to control residual quantities of the antibiotics used for production of food raw material (see Clause 3.15).

⁽the note was amended by Amendments and Additions No. 22, approved by Resolution No. 177 of Chief State Sanitary Inspector of the RF dated 27.12.2010)

<*> It is also required to control the residual quantities of the pesticides used for production of food raw material (see Clauses 3.12, 3.13).

^{3.2.} Food Products for Children of Pre-School and School Age

#### 3.2.1.1. Meat Canned Food (including from Poultry)

#### 1) Nutritional value (in 100 g of the product)

(as amended by Amendments and Additions No. 10, approved by Resolution No. 43 of Chief State Sanitary Inspector of the RF dated 16.07.2008)

Criteria and indices	Measuremer t Units	Permissible levels	Note
Protein	g, not les	12 s	
Fat	g, not mor than	18 e	
Sodium chloride	g, not mor than	1.2	
Starch or rice and (or) wheat	g, not mor than	3.0 e	
flour	g, not mor than	5.0 e	

Indices	Permissible levels,	Notes
	mg/kg, not more than	
1	2	3
_	_	
Toxic elements:		
lead	0.3	
arsenic	0.1	
cadmium	0.03	
mercury	0.02	
stannum	100	for canned food in
		assembled tin
		containers
Antibiotics <*>:		
laevomycetin (chloramphenicol)	0.01	Expiring on
		01.01.2012.
	0.0003	Shall become
		effective since
		01.01.2012.
tetracycline group	0.01	
bacitracin	0.02	
(as amended by Amendments No.	24, approved by Res	solution No. 79 of
Chief State Sanitary Inspector	of the RF dated 01.06	.2011)
Pesticides <**>:		
hexachlorocyclohexane (alpha-,	0.02	
beta-, gamma isomers)		
DDT and its metabolites	0.01	
Nitrites	not allowed	< 0,5
	1	1

Nitrosamines: sum of N-Nitrosodimethylamine and N-Nitrosodiethylamine	not allowed	0.001	
Radionuclides:			
caesium-137	40	Bq/kg	
Strontium-90	25	the same	
(as amended by Amendments and Additions No. 18, approved by Resolutio No. 71 of Chief State Sanitary Inspector of the RF dated 28.06.2010)  Microbiological indicators Shall satisfy requirements for industrial sterility for canned food			
	of group "A" in acco 8 to these Sanitary		
Dioxins	not allowed		
(introduced by Amendments and Additions No. 10, approved by Resolution No. 43 of Chief State Sanitary Inspector of the RF dated 16.07.2008)			

#### 3.2.1.2. Sausage products

#### 1) Nutritional value (in 100 g of the product)

Criteria and indices	Measuremen t Units	Permissib	le levels	Notes
		standard	marked	
Protein	g,	12	+	
Fat	not less than g,	22	+	
Energy value	not more than kcal	230 - 250	+	
Sodium chloride	g,	1.8	+	
Starch	not more than g,	5	-	
	not more			

T = 2 2 2 2 2	<u> </u>	Notes
Indices	Permissible levels,	Notes
	mg/kg, not more than	
1	2	3
_		
Toxic elements:		
Lead	0.3	
Arsenic	0.1	
Cadmium	0.03	
Mercury	0.02	
Antibiotics <*>	according to Clause 3.2.1.1	
Pesticides <**>:		
hexachlorocyclohexane (alpha-, beta-, gamma isomers)	0.02	
DDT and its metabolites	0.01	
Nitrites	30	
Nitrosamines:		
Sum of N-Nitrosodimethylamine	0.002	
and N-Nitrosodiethylamine	0.002	
Radionuclides	according to Clause	
	3.2.1.1	
Microbiological indicators:		
QMAFAnM,	1 x 1E3	CFU/g, not more than
Coliform bacteria (coliforms)	1.0	mass (g) in which
		the indicator is
E. coli	1.0	not allowed the same for
2. 0011	1.0	products with the
		shelf life of more
		than 5 days
S. aureus	1.0	mass (g) in which
		the indicator is
	0.1	not allowed the same
Sulfite-reducing clostridia	0.1	the same
Pathogenic, including	25	the same
salmonella <*>		<pre>&lt;*&gt; for sausage</pre>
		rolls and
		frankfurters
		additionally L.
Yeast	100	monocytogenes
10000	100	CFU/g, not more than, for products
		with the shelf
		life of more than
		5 days
Moulds	100	the same
Dioxins	not allowed	
	1	l

#### 3.2.1.3. Meat Semi-Manufactured Products

#### 1) Nutritional value (in 100 g of the product)

Criteria and indices	Measuremen t Units	Permissible levels		Notes
		standard	marked	
Protein	g,	10	+	
Fat	not less than g,	20	+	
Energy value	not more than kcal	165 - 220	+	
Energy value	nout	100 220		
Sodium chloride	g,	0.9	+	
	not more than			

(as amended by Amendments and Additions No. 10, approved by Resolution No. 43 of Chief State Sanitary Inspector of the RF dated 16.07.2008)

#### 2) Safety indices

than, raw chopped  1 x 1E5  CFU/g, not most than, natural raw  Coliform bacteria (coliforms)  0.001  mass (g) in which the indicator in the indicator in the same  Pathogenic, including salmonella and L. monocytogenes  Moulds  25  CFU/g not most the same  the same  CFU/g not most than, for semi manufactured products with coating	Indices	Permissible levels, mg/kg, not more than	
pesticides, radionuclides, nitrites, nitrosamines  Microbiological indicators:  QMAFANM,  5 x 1E5  CFU/g, not most than, raw chopped  1 x 1E5  CFU/g, not most than, natural raw  Coliform bacteria (coliforms)  0.001  mass (g) in which the indicator should the same the same  Pathogenic, including salmonella and  L. monocytogenes  Moulds  250  CFU/g not most the indicator should the same the same  CFU/g not most the indicator should the same the same the same the same the same the same than, for semi manufactured products with coating	1	2	3
QMAFANM,  5 x 1E5  CFU/g, not most than, raw chopped  1 x 1E5  CFU/g, not most than, natural raw  Coliform bacteria (coliforms)  0.001  mass (g) in which the indicator into allowed the same  Pathogenic, including salmonella and  L. monocytogenes  Moulds  25  CFU/g, not most than, natural raw  0.7  CFU/g not most than, for semi manufactured products with coating	pesticides, radionuclides,		
than, raw chopped  1 x 1E5  CFU/g, not most than, natural raw  Coliform bacteria (coliforms)  0.001  mass (g) in which the indicator in the indicator in the same  25  Salureus  Pathogenic, including salmonella and L. monocytogenes  Moulds  250  CFU/g not most than, for semi- manufactured products with coating	Microbiological indicators:		
Coliform bacteria (coliforms)  Coliform bacteria (coliforms)  S. aureus  Pathogenic, including  salmonella and  L. monocytogenes  Moulds  Pathogenics  Moulds  CFU/g, not most than, natural raw  mass (g) in which the indicator in not allowed the same the same the same  The same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than the same than	QMAFAnM,	5 x 1E5	than,
Coliform bacteria (coliforms)  0.001  mass (g) in which the indicator is not allowed the same  Pathogenic, including 25  salmonella and  L. monocytogenes  Moulds  250  CFU/g not most than, for seminanufactured products with coating		1 x 1E5	CFU/g, not more than, natural
S. aureus  Pathogenic, including salmonella and L. monocytogenes Moulds  250  CFU/g not monthan, for seminanufactured products with coating	Coliform bacteria (coliforms)	0.001	mass (g) in which the indicator is
salmonella and L. monocytogenes Moulds 250 CFU/g not monthan, for semmanufactured products with coating	S. aureus	0.1	
Moulds 250 CFU/g not most than, for semment actured products with coating	salmonella and	25	the same
		250	manufactured products with
Dioxins not allowed	Dioxins	not allowed	

#### 3.2.1.4. Pates and Culinary Products

#### 1) Nutritional value (in 100 g of the product)

Criteria and indices	Measuremen t Units	Permissible levels		Notes
		standard	marked	
Protein	g,	8	+	
Fat	not less than q	16	+	
	not more			
Energy value	kcal	140 - 180	+	
Sodium chloride	g,	1.2	+	
for the diagram	not more than			

#### 2) Safety indices

than  Coliform bacteria (coliforms)  1.0  mass (g) in which the indicator in not allowed  the same for products with the shelf life of more than 72 hours  S. aureus  1.0  mass (g) in which the shelf life of more than 72 hours  mass (g) in which the indicator in not allowed the indicator in not allowed  the same  Pathogenic, including  salmonella and  L. monocytogenes  Yeast  100  CFU/g, not more than, for product with the shelf		Permissible levels, mg/kg, not more than	Notes
Microbiological indicators:  QMAFANM,  Coliform bacteria (coliforms)  E. coli  S. aureus  Pathogenic, including salmonella and L. monocytogenes Yeast  Moulds  Microbiological indicators:  In x 1E3  CFU/g, not mor than or than mass (g) in which the same for products with the shelf life of mor than 72 hours the same  25  The same  100  CFU/g, not mor than 72 hours the same  CFU/g, not mor than, for product with the shell life of more than, for product with the shell life of more than, for product with the shell life of more than 72 hours the same  Moulds	pesticides, nitrosamines,		
QMAFANM,  Coliform bacteria (coliforms)  1.0  1.0  mass (g) in which the indicator in not allowed  the same for products with the shelf life of more than 72 hours  S. aureus  1.0  Sulfite-reducing clostridia  Pathogenic, including salmonella and L. monocytogenes Yeast  Moulds  1.0  CFU/g, not more than 72 hours  1.0  Moulds	_		_
Coliform bacteria (coliforms)  1.0  mass (g) in which the indicator in not allowed  E. coli  1.0  the same for products with the shelf life of more than 72 hours  S. aureus  1.0  mass (g) in which the same for products with the shelf life of more than 72 hours  Moulds  1.0  CFU/g, not more than 72 hours  1.0  CFU/g, not more than for product with the shelf life of more than 72 hours  Moulds  1.0  CFU/g, not more than 72 hours  The same  Moulds	Microbiological indicators:		
the indicator is not allowed  E. coli  1.0  the same for products with the shelf life of more than 72 hours  1.0  S. aureus  1.0  mass (g) in which the indicator is not allowed the same  Pathogenic, including salmonella and L. monocytogenes Yeast  100  CFU/g, not more than, for product with the sheld life of more than T2 hours Thousand The same  Moulds  The indicator is not allowed the same  The same  The same  The same  The same  The same  The same  The same  The same same is not allowed to the same  The same same is not allowed to the same  The same same is not allowed to the same  The same same is not allowed to the same  The same same is not allowed to the same same is not allowed to the same same is not allowed the same is not allowed the same is not allowed the same is not allowed the same is not allowed the same is not allowed the same is not allowed the same is not allowed the same is not allowed the same is not allowed the same is not allowed the same is not allowed the same is not allowed the same is not allowed to the same is not allowed to the same is not allowed the same is not allowed the same is not allowed the same is not allowed the same is not allowed the same is not allowed the same is not allowed the same is not allowed the same is not allowed the same is not allowed the same is not allowed the same is not allowed the same is not allowed the same is not allowed the same is not allowed the same is not allowed the same is not allowed the same is not allowed the same is not allowed the same is not allowed the same is not allowed the same is not allowed the same is not allowed the same is not allowed the same is not allowed the same is not allowed the same is not allowed the same is not allowed the same is not allowed the same is not allowed the same is not allowed the same is not allowed the same is not allowed the same is not allowed the same is not allowed the same is not allowed the same is not allowed the same is not allowed the same is not allowed the same is not allowed the same is not al	QMAFAnM,	1 x 1E3	CFU/g, not more than
E. coli  1.0  the same for products with the shelf life of more than 72 hours  1.0  S. aureus  1.0  mass (g) in which the indicator in not allowed the same  Pathogenic, including salmonella and L. monocytogenes Yeast  100  CFU/g, not more than, for product with the shell life of more than 72 hours  Moulds  Moulds  100  The same for products with the same for products with the shell life of more than 72 hours the same	Coliform bacteria (coliforms)	1.0	mass (g) in which the indicator is
S. aureus  1.0  than 72 hours mass (g) in which the indicator in not allowed the same  Pathogenic, including salmonella and L. monocytogenes Yeast  100  CFU/g, not mor than, for product with the shel life of more than 72 hours the same	E. coli	1.0	the same for products with the
Sulfite-reducing clostridia  Pathogenic, including	S. aureus	1.0	than 72 hours mass (g) in which the indicator is
salmonella and L. monocytogenes Yeast  100  CFU/g, not mor than, for product with the shel life of more than 72 hours Moulds  100  the same	Sulfite-reducing clostridia	0.1	
Yeast  100  CFU/g, not more than, for product with the sheld life of more than 72 hours the same  Moulds  100  CFU/g, not more than 72 hours the same	salmonella and	25	the same
Moulds 100 the same		100	life of more than
Dioxins not allowed			
I I	Dioxins	not allowed	

## 3.2.2. Bakery, Flour Confectionery and Flour-Cereal Products

# (as amended by Amendments and Additions No. 10, approved by Resolution No. 43 of Chief State Sanitary Inspector of the RF dated 16.07.2008)

Criteria and indices	Measuremen t Units	Permissible levels		Notes
		standard	marked	
1	2	3	4	5
PASTA				
Proteins	g	10 - 13	+	
Fats	the same	1 - 3	+	
Hydrocarbons	the same	60 - 70	+	
Energy value	kcal	300 - 360	+	
Iron	mg	1.0 - 2.0	+	for enriched products
Vitamins:				
thiamine (B1)	mg	0.15 - 0.25	+	for vitaminiz ed products
riboflavin (B2)	the same	0.1 - 0.15	+	the same
niacin (PP)	the same	1.0 - 3.0	+	the same
BAKERY PRODUCTS				
Proteins	g	8.0 - 13.0	+	
Fats	the same	1.0 - 8.0	+	
Hydrocarbons	the same	45 - 55	+	
Energy value	kcal	210 - 340	+	
Iron	mg	1.8 - 3.0	+	for enriched products
Vitamins:				
thiamine (B1)	mg	0.15 - 0.40	+	for vitaminiz ed products
riboflavin (B2) niacin (PP)	the same	0.1 - 0.5 1.5 - 3.0	+ +	the same
FLOUR CONFECTIONERY PRO (introduced by Amendmen No. 43 of Chief State S	nts and Addit			
Fats	g, not more	25	+	
(introduced by Amendmer No. 43 of Chief State S				

Trans-isomers	% from	7		
	the total			
	fat, not			
	more than			
(introduced by Amendmen	ts and Addi	ı tions No. 10,	approved by	ı Resolution
No. 43 of Chief State S	anitary Insp	ector of the	RF dated 16.0	7.2008)
Added sugar	g,	25	+	for
	not more			biscuits
	than			
		38	+	for
				products
				from
				biscuitin
	1			a sami-

(introduced by Amendments and Additions No. 10, approved by Resolution No. 43 of Chief State Sanitary Inspector of the RF dated 16.07.2008)

manufactu red products

#### 2) Safety indices

Indices	Permissible levels, mg/kg, not more than	Notes
1	2	3
Toxic elements:		
lead	0.5	flour - cereal products
	0.35	bakery and flour confectionery products
arsenic	0.2	flour - cereal
	0.15	products bakery and flour confectionery products
cadmium	0.1	flour - cereal
	0.07	products bakery and flour confectionery
mercury	0.03	products flour - cereal products
	0.015	bakery and flour confectionery products

(as amended by Amendments and Additions No. 10, approved by Resolution No. 43 of Chief State Sanitary Inspector of the RF dated 16.07.2008)

Mycotoxins:		
Aflatoxin B1	not allowed	< 0,00015
Dezoxynivalenol	not allowed	< 0,05 from
		wheat, barley
Zearalenone	not allowed	< 0,005 from
		wheat, barley,
		maize
T-2 toxin	not allowed	< 0,05
ochratoxin A	not allowed	< 0.0005 for all
		types
(	Additiona Na 10 ann	

as amended by Amendments and Ad No. 71 of Chief State Sanitary I		_
Pesticides <**>:		
Hexachlorocyclohexane (alpha-, beta-, gamma isomers)	0.01	
DDT and its metabolites	0.01	
Benz (a) pyrene	not allowed	< 0,0002
Radionuclides:		
caesium-137 Strontium-90	40 25	Bq/kg the same
(as amended by Amendments and A No. 71 of Chief State Sanitary 1		_
Harmful contaminants: Pest contamination and infestation of grain (insects, mites)	not allowed	
Microbiological indicators:	according to Clause 1.4.5	flour and cereal products
	according to Clause 1.4.7	bakery products
	according to Clause 1.5.5	flour confectionery products
(as amended by Amendments and A No. 43 of Chief State Sanitary 1		_

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<*> If grizin, bacitracin, antibiotics of tetracycline group, penicillin, streptomycin are determined with the use of chemical methods of determination, re-calculation of their actual content in unit/g shall be carried out according to the standard activity.

<*> It is also required to control residual quantities of the pesticides used for production of food raw material (see Clauses 3.12, 3.13).

#### 3.2.3. Products from Fish, Invertebrates and Algae

(introduced by Amendments and Additions No. 10, approved by Resolution No. 43 of Chief State Sanitary Inspector of the RF dated 16.07.2008)

## 3.2.3.1. Semi-manufactured Products from Fish, Invertebrates and Algae1) Nutritional value (in 100 g of the product)

Criteria and indices	Measurement	Permissible levels	
	Units	standard	marked
Protein	g,	16	+
	not less than		
Fat	g	1 - 11	+
Energy value	kcal	70 - 160	+

Indices	Permissible levels, mg/kg, not more than	
Toxic elements:		1
lead	0.5	
arsenic	0.5	
cadmium	0.1	
mercury	0.15	
Phycotoxins:		
paralytic toxin of molluscs (saxitoxin)	not allowed	molluscs
amnesic toxin of molluscs (domoic acid)	not allowed	molluscs
amnesic toxin of molluscs (domoic acid)	not allowed	internal organs of crabs
diarrheal toxin of molluscs (okadaic acid)	not allowed	molluscs
Pesticides <**>:	1	<u> </u>
hexachlorocyclohexane (alpha-, beta-, gamma isomers)	0.02	
DDT and its metabolites	0.01	
Nitrosamines:	L	<u>I</u>
sum of N-Nitrosodimethylamine and N-Nitrosodiethylamine	not allowed	
histamine	100	tuna, mackerel, salmon, herring
Polychlorinated biphenyls	0.5	

Dioxins	not allowed	fish semi- manufactured products
Radionuclides:	L	produces
caesium-137	100	Bq/kg
Strontium-90	60	the same
Microbiological indicators:		I
QMAFAnM,	4 5 x 10	CFU/g, not more than
Coliform bacteria (coliforms)	0.01	mass of the product (g) in which the indicator is not allowed
S.aureus	0.01	the same
Pathogenic, including salmonella and L.monocytogenes	25	the same
Sulfite-reducing clostridia	0.01	mass of the product (g), in which the indicator is not allowed (for vacuum-packed products)
V.parahaemolyticus	100	CFU/g, not more than, (for sea fish)
Antibiotics <*>: for pond fish a	l and fish of cage cult	Lure fishery
tetracycline group	0.01	
(as amended by Amendments No. Chief State Sanitary Inspector o		

# 3.2.3.2. Culinary Products from Fish, Invertebrates and Algae1) Nutritional value (in 100 g of the product)

Criteria and indices	Measurement Units	Permissible levels
Protein	g, not less than	13
Fat	g, not more than	8
Energy value	kcal	90 - 130
Sodium chloride	%, not more than	0.8
Starch	g, not more than	5

Indices	Permissible levels, mg/kg, not more than	Note
Toxic elements:		
lead	0.5	
arsenic	0.5	
cadmium	0.1	
mercury	0.15	
Phycotoxins:		
paralytic toxin of molluscs (saxitoxin)	raw material control	molluscs
amnesic toxin of molluscs (domoic acid)	raw material control	molluscs
amnesic toxin of molluscs (domoic acid)	raw material control	internal organs of crabs
diarrheal toxin of molluscs (okadaic acid)	raw material control	molluscs
Mycotoxins: raw material control		1
aflatoxin B1	not allowed	for cereal, flour
aflatoxin M1	not allowed	for products with milk component
dezoxynivalenol	not allowed	for cereal, flour
zearalenone	not allowed	for cereal, flour
T-2 toxin	not allowed	for cereal, flour
ochratoxin A	not allowed	< 0.0005 for wheat, rye, barley, oat and rice flour
Antibiotics <*>:		
Laevomycetin (chloramphenicol)	0.01	Expiring on 01.01.2012 (for products with milk component).
	0.0003	Shall become effective since 01.01.2012 (for products with milk component).
of tetracycline group	0.01	(for pond fish and fish of cage culture fishery, for products with milk, egg component)
penicillins	0.004	(for products with milk component
streptomycin	0.2	(for products with milk component
bacitracin	0.02	(for products with egg component)

(as amended by Amendments No. 24, approved by Resolution No. 79 of Chief State Sanitary Inspector of the RF dated 01.06.2011)

hexachlorocyclohexane (alpha-, beta-, gamma isomers)	0.02	
DDT and its metabolites	0.01	
hexachlorobenzene	0.01	raw material control for cereal, flour
mercury organic pesticides	not allowed	raw material control for cereal, flour
2, 4-D acid, its salts and esters	not allowed	raw material control for cereal, flour
Benz(a)pyrene	not allowed	
Histamine	100	tuna, mackerel, salmon, herring
Nitrates	150	for products containing vegetables
N-nitrosamines: sum of N-Nitrosodimethylamine and N- Nitrosodiethylamine	not allowed	
Polychlorinated biphenyls	0.5	
Radionuclides:		1
caesium-137	100	
strontium-90	60	
Dioxins	not allowed	fish culinary products
Microbiological indicators:	according to Clauses 1.3.3.9, 1.3.3.10, 1.3.3.11	

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#### Note:

<*> It is also required to control residual quantities of the antibiotics used for production of food raw material (see Clause 3.15).

(the note was amended by Amendments and Additions No. 22, approved by Resolution No. 177 of Chief State Sanitary Inspector of the RF dated 27.12.2010)

<*> It is also required to control residual quantities of the pesticides used for production of food raw material.

#### 3.2.4. Milk and Milk Products

# (introduced by Amendments and Additions No. 10, approved by Resolution No. 43 of Chief State Sanitary Inspector of the RF dated 16.07.2008)

3.2.4.1. Milk; Cream; Fermented Milk Products, including Yoghurts, Milk-Based Drinks

## 1) Nutritional value (in 100 g of a ready-to-eat product)

Criteria and indices	Measurement Units	Permissible levels	Note
Protein			
	g	2.0 - 5.0	- milk,
			fermented milk
			products
	g,	2.7	- cream
	not less than		
Fat			
	g	1.5 - 4.0	- milk,
			fermented milk
			products
	the same	10 - 20	- cream
Hydrocarbons,	g	16.0	
including sugar	g,	10	
	not more than		

## 2) Safety indices (in ready -to-eat product)

Indices	Permissible	Note
	levels, mg/kg, not	
	more than	2
1	2	3
Indications of oxidative dete	erioration:	
peroxide value	4.0	mmol of active
		oxygen/kg of fat
Toxic elements:		
lead	0.02	
arsenic	0.05	
cadmium	0.02	
mercury	0.005	
Antibiotics <*>:		
100000000000000000000000000000000000000	0.01	
laevomycetin (chloramphenicol)	0.01	Expiring on 01.01.2012.
	0.0003	Shall become effective since 01.01.2012.
tetracycline group	0.01	
penicillins	0.004	
Streptomycin	0.2	
(as amended by Amendments No of Chief State Sanitary Inspe		
Pesticides <**>:		
hexachlorocyclohexane (alpha-, beta-, gamma isomers)	0.02	
DDT and its metabolites	0.01	
Dioxins	not allowed	
Radionuclides:	<u> </u>	1
caesium-137	40	Bq/l
strontium-90	25	the same
Melamine	not allowed	< 1 mg/kg
(introduced by Amendments No of Chief State Sanitary Inspe		

Microbiological indicators:					
Index, group of products	CFU/cm3(g), not	cm3) indicat Colifo rm	of products (g, in which the cor is not allowed pathogenic including salmonella		
1	2	3	4	5	
Pasteurized milk					
in in consumer packaging	5 1 × 10	0.01	25	S. aureus in 1 cm3 are not allowed L. monocytogenes in 25 cm3 are not allowed	
Pasteurized cream	1:				
- in in consumer packaging	5 1 × 10	0.01	25	S. aureus in 1 cm3 are not allowed L. monocytogenes in 25 cm3 are not allowed	
Baked milk	3 2.5 x 10	1.0	25		
Sterilized milk and cream Shall satisfy requirements for industrial sterility for sterilized milk and cream in a consumer packaging in accordance with Annex 8 to SanPin 2.3.2.1078-01					

Microbiological indicators:						
products	acid microorgan isms, CFU/cm3(g)	in which not allowe Coliform bacteria	the inded	g (g, cm3) dicator is pathogeni c including salmonell a	Yeast and moulds, CFU/cm3( g), not more than	Note
1	2	3	4	5	6	7
Liquid fermented milk products, including yoghurt, with the shelf life of not more than 72 hours		0.01	1.0	25	-	
Liquid fermented milk products, including yoghurt, with the shelf life of more than 72 hours	not less than 7 1 x 10 <**>	0.1	1.0	25	yeast - 50 <*> moulds - 50	<pre>&lt;*&gt; except for drinks produced with the use of starters containing yeast; &lt;**&gt; the norms are not established for heat- treated products</pre>
bifidobacteria,	than 7 1 x 10 ; bifidobact eria - not	0.1	1.0	25	50 <*>	<pre>&lt;*&gt; except for drinks produced with the use of starters containing yeast</pre>
Boiled fermented milk (ryazhenka)	_	1.0	1.0	25	-	
Sour cream and products on its basis		0.001	1.0	25	yeast - 50 <**> moulds - 50 <**>	<pre>&lt;*&gt; for heat- treated products - 0.01; &lt;**&gt; for products with the shelf life of more than 72 hours</pre>

#### 3.2.4.2. Curds and Curd Products (including with Fruit or Vegetable Fillings).

	easuremen Units	Permissible levels	Note
1	2	3	4
tein g		7 - 17	
t	he same	3.5 - 15	
	ot more	12	
luding sugar g		10	
rgy value k	cal	105 - 250	
	, ot more	150	
T n.	,		

Indices	Permissible levels,	Note
	mg/kg, not more than	
		2
1	2	3
Indications of oxidative deteri	loration:	
peroxide value	4.0	mmol of active oxygen/kg of fat, for products with fat content of more than 5 g/100 g and products enriched with vegetable oils
Toxic elements:		
lead	0.06	
arsenic	0.15	
cadmium	0.06	
mercury	0.015	
Antibiotics, mycotoxins and radionuclides, dioxins	according to Clause 3.2.4.1	
Pesticides <**>:	I	
hexachlorocyclohexane (alpha-, beta-, gamma isomers)	0.55	in terms of fat
DDT and its metabolites	0.33	the same

Microbiological indicators:					
Index, group of products	Mass of products (g), in which the indicator is not allowed			Yeast and moulds, CFU/g, not more	Note
	Coliform bacteria (coli forms)	S. aureus	pathogenic including salmonella	than	
1	2	3	4	5	6
Curds and curd products with the shelf life of not more than 72 hours		0.1	25		
Curds and curd products with the shelf life of not more than 72 hours		0.1	25	yeast - 100, moulds - 50	
Heat treated curd products	0.01	1.0	25	yeast and moulds - 50	

#### 3.2.4.3. Cheese (Hard, Semi-Hard, Soft, Brine, Cheese Spread)

Criteria and indices	Measurement	Permissible levels	Note
	Units		
1	2	3	4
Mass fraction of moisture	%,	60	
	not more than		
Mass fraction of fat in d	y the same	50	
substance			
Sodium chloride	g,	2	
	not more than		

-		
Indices	Permissible levels,	Note
	mg/kg(l), not more	
	than	
Toxic elements:		
lead	0.2	
arsenic	0.15	
cadmium	0.1	
mercury	0.03	
Mycotoxins:		
aflatoxin M1	not allowed	< 0.0005
Antibiotics <*>:		
laevomycetin	0.01	Expiring on
(chloramphenicol)		01.01.2012.
	0.0003	Shall become
		effective since
		01.01.2012
tetracycline group	0.01	
penicillins	0.004	
Streptomycin	0.2	
(as amended by Amendments No.	24, approved by Res	solution No. 79 of
Chief State Sanitary Inspector	of the RF dated 01.0	06.2011)
		I
Pesticides <**>:		
hexachlorocyclohexane (alpha-	0.6	in terms of fat
, beta-, gamma isomers)		
DDT and its metabolites	0.2	the same
Dioxins	not allowed	
Radionuclides:		
caesium-137	40	Bq/kg
	0.5	. 1

#### Microbiological Indicators:

Index, group of			(),	in Note
products	CFU/g,	which the	indicator	is
	not more	not allowed	d	
	than	Coliform	pathogenic	
		bacteria	including	
		(coliforms	salmonella	
		)		
1	2	3	4	5
Cheese (hard, semi-		0.001	25	S. aureus not more than
hard, brine, soft)				500 CFU/g
				L. monocytogenes in 25 g
				are not allowed
Cheese spread				
- without filling	3	0.1	25	moulds not more than 50
agents	F 10			CFU/g, yeast not more
	5 x 10			than 50 CFU/g
- with filling	4	0.1	25	moulds not more than 100
agents	1 10			CFU/g, yeast not more
	1 x 10			than 100 CFU/g
	1	1	1	

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#### Note:

<*> It is also required to control residual quantities of the antibiotics used for production of food raw material (see Clause 3.15).

(the note was amended by Amendments and Additions No. 22, approved by Resolution No. 177 of Chief State Sanitary Inspector of the RF dated 27.12.2010)

<*> It is also required to control residual quantities of the pesticides used for production of food raw material.

# 3.2.5. Canned Fruit and Vegetables (Juices, Nectars, Drinks, Fruit Waters, Puree: Fruit and Milk, and Fruit and Cereal Puree; Combined Products)

(introduced by Amendments and Additions No. 10, approved by Resolution No. 43 of Chief State Sanitary Inspector of the RF dated 16.07.2008)

1) Nutritional value (in 100 g of the product)

Criteria and indices	Measurement Units	Permissible levels	Note
1	2	3	4
Mass fraction of dry substances	g	5 - 20	with no consideration of included chlorides and sugar for vegetable juices
	g, not less than	4	for tomato juice
Total acidity	%, not more than	1.3	
Hydrocarbons	g	4 - 25	
including added sugars	g, not more than	10	for nectars and drinks
	g, not more than	12	for fruit waters
Mass fraction of ethanol	%, not more than	0.2	for fruit juices
Sodium chloride	g, not more than	0.6	for vegetable juices
Vitamins:			
ascorbic acid (C)	mg, not more than	75.0	
	mg, not less than	25	at the end of the shelf life

# 2) Safety Indices

Indices	Permissible levels, mg/kg, not more than	Note
Toxic elements:	1	
lead	0.3	
arsenic	0.2	
cadmium	0.02	
mercury	0.01	
Mycotoxins:		
patuline	not allowed	< 0.02, for products containing apples, tomatoes, sea-buckthorn
Pesticides <**>:	1	
hexachlorocyclohexane (alpha-, beta-, gamma isomers)	0.01	
DDT and its metabolites	0.005	
Nitrates	50	on fruit basis
	200	on vegetable, and fruit and vegetable basis, also for products containing bananas
5-Oxymethylfurfurol	20	for fruit juices and nectars
	10	for orange and grapefruit juices and nectars
Radionuclides:	<u>I</u>	
caesium-137	60	Bq/kg
strontium-90	25	the same
Microbiological indicators		ents for industrial sterility for canned groups (Annex 8 to SanPin 2.3.2.1078-

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#### Note:

<*> It is also required to control residual quantities of the pesticides used for production of food raw material.

## 3.3. Specialized Therapeutic Children Products

## 3.3.1 Low-Lactose and Non-Lactose Products

## 1) Nutritional value (in a ready-to-eat product)

Criteria and indices	Measuremen	Permissib	le levels	Notes
	t Units	standard	marked	
1	2	3	4	5
LOW-LACTOSE AND NON-L. YEAR	ACTOSE PRODU	CTS FOR CHILI	DREN OF 1	OLD
Protein	g/l	14 - 20	+	
Taurin	mg/l	40 - 55	+	
L-carnitine	the same	10 - 15	'	
Fat.	g/l	30 - 38	+	
Linoleic acid	% from the		+	
	sum of		,	
	fatty			
	acids, not			
	less than			
the same		4000	+	
che same	mg/1,	4000	т	
	not less			
77 1 1	than	CF 00		
Hydrocarbons	g/1	65 - 80	+	
Dextrin - maltose	the same	50 - 60	+	
Lactose	g/1, not	10	+	in low-lactose
	more than			products
_	the same	0.1		in non-
Energy value	kcal/l	570 - 720	+	lactose
				products
Mineral substances:	4-			
calcium	mg/l	300 - 700	+	
phosphorus	the same	300 - 500	+	
potassium	the same	500 - 800	+	
sodium	the same	150 - 300	+	
magnesium	the same	40 - 60	+	
copper	the same	0.3 - 1.0	+	
manganese	the same	20 - 100	+	
iron	mg/l the same	3 - 14	+ +	
zinc chlorides		4 - 10	+	
iodine	the same	400 - 800	+	
ash	mkg/l	50 - 100	+	
Vitamins:	g/l	3 - 5	т	
retinol (A)	mkg-eq/l	500 - 800	+	
tocopherol (E)	mg/l	4 - 12	+	
calciferol (D)	mkg/l	8 - 12	+	
vitamin K	the same	25 - 50	_	
thiamine (B1)	the same	350 - 700	+	
riboflavin (B2)	the same	500 - 1000		
TINOTIAVIII (DZ)	Lette same	1 300 - 1000	I ^T	_ I

pyridoxin (B6)	the same	300 - 700	+	
panthotenic acid	the same	2500 - 3500	+	
folic acid (Bc)	the same	50 - 100	+	
cyanocobalamin (B12)	mkg/l	1.5 - 3.0	+	
niacin (PP)	mg/l	3 - 8	+	
ascorbic acid (C)	mg/l	40 - 100	+	
biotin	mkg/l	10 - 20	-	
carnitine	mg/l	10 - 20	-	
inosite	mg/l	20 - 30	-	
choline	the same	50 - 100	-	
(as amended by Ame	endments and	Additions	No. 2, app	proved by
Resolution No. 41 of	Chief State	Sanitary Insp		
15.04.2003)				
Osmolality	mOcm/kg,	300	+	
	not more			
	than			
LOW-LACTOSE MILK				
Protein	g/l	40 - 47	+	
Protein	g/l -	40 - 47 80 : 20	+ -	
Protein Casein/ whey	g/l -	-	+ -	
Protein	_	80 : 20	-	
Protein Casein/ whey proteins	g/l	80 : 20 20 - 38	+ - + +	
Protein Casein/ whey proteins Fat	g/l % from the	80 : 20 20 - 38 15	+	
Protein Casein/ whey proteins Fat	g/l % from the sum of	80 : 20 20 - 38 15	+	
Protein Casein/ whey proteins Fat	g/l % from the	80 : 20 20 - 38 15	+	
Protein Casein/ whey proteins Fat	g/l % from the sum of fatty acids	80 : 20 20 - 38 15	+	
Protein Casein/ whey proteins Fat Linoleic acid	g/l % from the sum of fatty acids mg/l	80 : 20 20 - 38 15	+ +	
Protein Casein/ whey proteins Fat Linoleic acid	g/l % from the sum of fatty acids	80 : 20 20 - 38 15	+	
Protein  Casein/ whey proteins  Fat  Linoleic acid  the same  Hydrocarbons  Glucose	g/l % from the sum of fatty acids mg/l g/l the same	80 : 20 20 - 38 15 5000 - 6000 60 - 65	- + +	
Protein  Casein/ whey proteins  Fat  Linoleic acid  the same  Hydrocarbons	g/l % from the sum of fatty acids mg/l g/l the same the same	80: 20 20 - 38 15  5000 - 6000 60 - 65 25 - 28 6 - 7	- + +	
Protein  Casein/ whey proteins  Fat Linoleic acid  the same  Hydrocarbons  Glucose  Galactose	g/l % from the sum of fatty acids mg/l g/l the same the same g/l, not	80: 20 20 - 38 15  5000 - 6000 60 - 65 25 - 28 6 - 7	- + + +	
Protein  Casein/ whey proteins  Fat Linoleic acid  the same  Hydrocarbons  Glucose  Galactose	g/l % from the sum of fatty acids mg/l g/l the same the same	80: 20 20 - 38 15  5000 - 6000 60 - 65 25 - 28 6 - 7	- + + +	

Indices	Permissible levels, mg/kg, not more	
	than	
1	2	3
Indications of oxidative	4.0	mmol of active
deterioration:		oxygen/kg of
peroxide value		fat
Toxic elements:		
Lead	0.05	
Arsenic	0.05	
Cadmium	0.02	
mercury	0.005	
Mycotoxins: aflatoxin M1	not allowed	< 0.00002
Antibiotics <*>:		
laevomycetin	0.01	Expiring on
(chloramphenicol)		01.01.2012.
	0.0003	Shall become
		effective since
		01.01.2012.
Mycotoxins: aflatoxin M1  Antibiotics <*>:  laevomycetin	not allowed  0.01	Expiring on 01.01.2012.  Shall become effective since

tetracycline group	0.01	
penicillins	0.004	
Streptomycin	0.2	
(as amended by Amendments No.	24, approved by Res	solution No. 79 of
Chief State Sanitary Inspector	of the RF dated 01.	06.2011)
Pesticides <**>:	0.02 0.01	the same
hexachlorocyclohexane (alpha-		
, beta-, gamma isomers)		
DDT and its metabolites		
Radionuclides:	40	Bq/l
cesium-137	25	the same
strontium-90		
Microbiological indicators:		for dry products
QMAFAnM,		
	2.5 x 1E4	CFU/g, not more
		than
Coliform bacteria (coliforms)	1.0	mass (g) in which
		the indicator is
		not allowed
S.aureus	1.0	the same
B.cereus	200	CFU/g, not more
		than
Pathogenic, including	100	mass (g) in which
salmonella and L.		the indicator is
monocytogenes		not allowed
Moulds	100	CFU/g, not more
		than
Yeast	50	the same
dioxins	not allowed	
(introduced by Amendments a	and Additions No.	10, approved by
Resolution No. 43 of Chief Sta	ate Sanitary Inspecto	or of the RF dated

16.07.2008)

Melamine not allowed < 1 mg/kg

(introduced by Amendments No. 11, approved by Resolution No. 56 of Chief State Sanitary Inspector of the RF dated 01.10.2008)

# 3.3.2. Products Based on the Soya Protein Isolate

# 1) Nutritional value (in a ready-to-eat product)

,	`		,	
Criteria and indices	Measuremen t Units	Permissib	ole levels	Notes
		standard	marked	
1	2	3	4	5
Protein	g/l	15 - 20	+	
Methionine	the same	0.25 - 0.35	+	
Fat	g/l	30 - 38	+	
Linoleic acid	% from the		+	
	sum of			
	fatty			
	acids,			
	not less			
the same	than	4000		
the same	mg/l, not less	4000		
	than			
Hydrocarbons (dextrin		65 - 80	+	
maltose)				
Energy value	kcal/l	650 - 720	+	
Mineral substances:				
		450		
calcium phosphorus	mg/l the same	450 - 750 250 - 500	+ +	
potassium	mg/l	500 - 800	+	
sodium	the same	200 - 320	+	
magnesium	the same	40 - 80	+	
copper	the same	0.4 - 1.0	+	
iron	mg/l	6 - 14	+	
zinc	the same	4 - 10	+	
ash	g/l	3 - 5	+	
Vitamins:				
retinol (A)	mkg-eq/l	500 - 800	+	
tocopherol (E)	mg/l	5 - 15	+	
calciferol (D)	mkg/l	8 - 12	+	
vitamin K	the same	25 - 100	<del>-</del>	
thiamine (B1)	the same	300 - 600	+	
riboflavin (B2)	the same	600 - 1000 300 - 700		
pyridoxin (B6) folic acid (Bc)	the same mkg/l	60 - 150	+ +	
(as amended by Amendme	-	!	I	I I
Resolution No. 71 of (				_
28.06.2010) cyanocobalamin (B12)	mkg/l	1.5 - 3	+	
niacin (PP)	mg/l	4 - 8	+	
ascorbic acid	mg/l	60 - 150	+	
(as amended by Amendme Resolution No. 71 of (	ents and Add			
28.06.2010) (C)	m cr / 1	15 FF	I .	I
taurin	mg/l	45 - 55 10 - 20	+ +	
L-carnitine	rne same		· '	1
	the same	l ^l	. approved hy	7
(as amended by Amendme Resolution No. 41 of (	ents and Add	itions No. 2		
(as amended by Amendme Resolution No. 41 of ( 15.04.2003)	ents and Add	itions No. 2 Sanitary Ins	pector of the	
Resolution No. 41 of 0	ents and Add	itions No. 2		

(as amended by Amendments and Additions No. 18, approved by Resolution No. 71 of Chief State Sanitary Inspector of the RF dated 28.06.2010)

Indices  Permissible levels, Motes  mg/kg, not more than  1 2 3  Indications of oxidative deterioration:  peroxide value  4.0 mmol of active	
than  1 2 3  Indications of oxidative deterioration:  peroxide value 4.0 mmol of active	
1 2 3  Indications of oxidative deterioration:  peroxide value 4.0 mmol of active	
Indications of oxidative deterioration:  peroxide value  4.0 mmol of active	
deterioration:  peroxide value  4.0 mmol of active	
peroxide value 4.0 mmol of active	
oxygen/kg of	
fat	
Toxic elements:	
lead 0.02	
(as amended by Amendments and Additions No. 18, approved	by
Resolution No. 71 of Chief State Sanitary Inspector of the RF da	_
28.06.2010)	
arsenic 0.05	
cadmium 0.02	
mercury 0.005	
Mycotoxins: not allowed < 0.00015	
aflatoxin B1	
Pesticides <**>:	
hexachlorocyclohexane (alpha- 0.02	
, beta-, gamma isomers)	
DDT and its metabolites 0.01	
Radionuclides:	
Caesium - 137 40 Bq/1	
Strontium-90 25 the same	
(as amended by Amendments and Additions No. 18, approved	_
Resolution No. 71 of Chief State Sanitary Inspector of the RF da	ated
28.06.2010)	(1
Microbiological indicators: for dry produc	
QMAFAnM, 2 x 1E3 CFU/g, not r	ts more
QMAFAnM, 2 x 1E3 CFU/g, not r than	nore
QMAFAnM, 2 x 1E3 CFU/g, not r than Coliform bacteria (coliforms) 1.0 mass (g) in wh	more nich
QMAFAnM, 2 x 1E3 CFU/g, not r than  Coliform bacteria (coliforms) 1.0 mass (g) in where the indicator	more nich
QMAFAnM, 2 x 1E3 CFU/g, not r than  Coliform bacteria (coliforms) 1.0 mass (g) in when the indicator not allowed	more nich is
QMAFAnM, 2 x 1E3 CFU/g, not rethan  Coliform bacteria (coliforms) 1.0 mass (g) in what the indicator not allowed  S. aureus 1.0 mass (g) in what the indicator not allowed	more nich is
QMAFANM, 2 x 1E3 CFU/g, not rethan  Coliform bacteria (coliforms) 1.0 mass (g) in what the indicator not allowed  S. aureus 1.0 mass (g) in what the indicator not allowed the indicator not allowed the indicator not allowed the indicator not allowed the indicator not allowed the indicator not allowed the indicator not allowed the indicator not not allowed the indicator not not not not not not not not not not	more nich is
QMAFANM,  Coliform bacteria (coliforms)  1.0  mass (g) in whe indicator not allowed  S. aureus  1.0  mass (g) in where indicator not allowed the indicator not allowed the indicator not allowed	more nich is nich is
QMAFANM,  Coliform bacteria (coliforms)  1.0  mass (g) in where the indicator not allowed solutions.  S. aureus  1.0  mass (g) in where the indicator not allowed the indicator not allowed the indicator not allowed the indicator not allowed solutions.  B. cereus  100  CFU/g, not represent the indicator not allowed the indicator not allowed the indicator not allowed the indicator not allowed the indicator not allowed the indicator not allowed the indicator not allowed the indicator not allowed the indicator not allowed the indicator not allowed the indicator not allowed the indicator not allowed the indicator not allowed the indicator not allowed the indicator not allowed the indicator not allowed the indicator not allowed the indicator not allowed the indicator not allowed the indicator not allowed the indicator not allowed the indicator not allowed the indicator not allowed the indicator not allowed the indicator not allowed the indicator not allowed the indicator not allowed the indicator not allowed the indicator not allowed the indicator not allowed the indicator not allowed the indicator not allowed the indicator not allowed the indicator not allowed the indicator not allowed the indicator not allowed the indicator not allowed the indicator not allowed the indicator not allowed the indicator not allowed the indicator not allowed the indicator not allowed the indicator not allowed the indicator not allowed the indicator not not not not not not not not not not	more nich is
QMAFANM,  Coliform bacteria (coliforms)  1.0  mass (g) in where the indicator not allowed  S. aureus  1.0  mass (g) in where the indicator not allowed  The indicator not allowed  The indicator not allowed  The indicator not allowed  The indicator not allowed  The indicator not allowed  The indicator not allowed  The indicator not allowed  The indicator not allowed  The indicator not allowed  The indicator not allowed  The indicator not allowed  The indicator not allowed  The indicator not allowed  The indicator not allowed  The indicator not allowed  The indicator not allowed  The indicator not allowed  The indicator not allowed  The indicator not allowed  The indicator not allowed  The indicator not allowed  The indicator not allowed  The indicator not allowed  The indicator not allowed  The indicator not allowed  The indicator not allowed  The indicator not allowed  The indicator not allowed  The indicator not allowed  The indicator not allowed  The indicator not allowed  The indicator not allowed  The indicator not allowed  The indicator not allowed  The indicator not allowed  The indicator not allowed  The indicator not allowed  The indicator not allowed  The indicator not allowed  The indicator not allowed  The indicator not allowed not not allowed not not allowed not not allowed not not not not not not not not not not	more nich is nich is
QMAFANM,  Coliform bacteria (coliforms)  1.0  mass (g) in where the indicator not allowed solutions and allowed the indicator not allowed the indicator not allowed the indicator not allowed the indicator not allowed the indicator not allowed the indicator not allowed the indicator not allowed the indicator not allowed the indicator not allowed the indicator not allowed the indicator not allowed the indicator not allowed indicator not allowed indicator not allowed the indicator not allowed indicator not allowed indicator not allowed indicator not allowed indicator not allowed indicator not allowed indicator not allowed indicator not allowed indicator not allowed indicator not allowed indicator not allowed indicator not allowed indicator not allowed indicator not allowed indicator not allowed indicator not allowed indicator not allowed indicator not allowed indicator not allowed indicator not allowed indicator not allowed indicator not allowed indicator not allowed indicator not allowed indicator not allowed indicator not allowed indicator not allowed indicator not allowed indicator not allowed indicator not allowed indicator not allowed indicator not allowed indicator not allowed indicator not allowed indicator not allowed indicator not allowed indicator not allowed indicator not allowed indicator not allowed indicator not allowed indicator not allowed indicator not allowed indicator not allowed indicator not allowed indicator not allowed indicator not allowed indicator not allowed indicator not allowed indicator not allowed indicator not allowed indicator not allowed indicator not allowed indicator not allowed indicator not allowed indicator not allowed indicator not allowed indicator not allowed indicator not allowed indicator not allowed indicator not allowed indicator not allowed indicator not allowed indicator not allowed indicator not allowed indicator not allowed indicator not allowed indicator not allowed indicator not not allowed indicator not not allowed indicator not not allowed indicator not not not	more nich is nich is more
QMAFANM,  Coliform bacteria (coliforms)  1.0  mass (g) in whe indicator not allowed  S. aureus  1.0  mass (g) in whe indicator not allowed  The indicator not allowed  CFU/g, not recommended  The indicator not allowed  CFU/g, not recommended  Than  Pathogenic, including  Salmonella  100  Than  mass (g) in whe indicator  than  mass (g) in whe indicator	more nich is nich is more
QMAFANM,  Coliform bacteria (coliforms)  1.0  mass (g) in where the indicator not allowed  S. aureus  1.0  mass (g) in where the indicator not allowed  The indicator not allowed  B. cereus  100  CFU/g, not represent the indicator not allowed  CFU/g, not represent the indicator not allowed  The indicator not allowed  The indicator not allowed	more nich is nich is nich is
QMAFANM,  Coliform bacteria (coliforms)  1.0  mass (g) in whe indicator not allowed  S. aureus  1.0  mass (g) in whe indicator not allowed  The indicator not allowed  CFU/g, not recommended the indicator not allowed  Than  Pathogenic, including  Salmonella  Moulds  Tolomorphic indicator not allowed  Tolomorphic indicator not allowed  Tolomorphic indicator not allowed  CFU/g, not recommended  Tolomorphic indicator not allowed  Tolomo	more nich is nich is more
QMAFANM,  Coliform bacteria (coliforms)  1.0  mass (g) in whe indicator not allowed  S. aureus  1.0  mass (g) in whe indicator not allowed  The indicator not allowed  CFU/g, not recommended the indicator not allowed  Than  Pathogenic, including  salmonella  Moulds  To CFU/g, not recommended the indicator not allowed  CFU/g, not recommended the indicator not allowed  CFU/g, not recommended the indicator not allowed  CFU/g, not recommended the indicator not allowed  CFU/g, not recommended the indicator not allowed  CFU/g, not recommended the indicator not allowed  Than	more nich is nich is nich is
QMAFANM,  Coliform bacteria (coliforms)  1.0  mass (g) in whe indicator not allowed  S. aureus  1.0  mass (g) in whe indicator not allowed  The indicator not allowed  The indicator not allowed  Than  Pathogenic, including  Salmonella  Moulds  Teast  100  CFU/g, not reallowed  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than  Than	more nich is nich is more nich is
QMAFANM,  Coliform bacteria (coliforms)  1.0  mass (g) in where the indicator not allowed  S. aureus  1.0  B. cereus  100  CFU/g, not represent the indicator not allowed  CFU/g, not represent the indicator not allowed  CFU/g, not represent the indicator not allowed  CFU/g, not represent the indicator not allowed  Moulds  Moulds  50  CFU/g, not represent the indicator not allowed  CFU/g, not represent the indicator not allowed  CFU/g, not represent the indicator not allowed  CFU/g, not represent the indicator not allowed  CFU/g, not represent the indicator not allowed  CFU/g, not represent the indicator not allowed  CFU/g, not represent the indicator not allowed  CFU/g, not represent the indicator not allowed  CFU/g, not represent the indicator not allowed  CFU/g, not represent the indicator not allowed  CFU/g, not represent the indicator not allowed  CFU/g, not represent the indicator not allowed  CFU/g, not represent the indicator not allowed  CFU/g, not represent the indicator not allowed  CFU/g, not represent the indicator not allowed  CFU/g, not represent the indicator not allowed  CFU/g, not represent the indicator not allowed  CFU/g, not represent the indicator not allowed  CFU/g, not represent the indicator not allowed  CFU/g, not represent the indicator not allowed  CFU/g, not represent the indicator not allowed  CFU/g, not represent the indicator not allowed  CFU/g, not represent the indicator not allowed not allowed the indicator not allowed not allowed not allowed not allowed not allowed not allowed not allowed not allowed not allowed not allowed not allowed not allowed not allowed not allowed not allowed not allowed not allowed not allowed not allowed not allowed not allowed not allowed not allowed not allowed not allowed not allowed not allowed not allowed not allowed not allowed not allowed not allowed not allowed not allowed not allowed not allowed not allowed not allowed not allowed not allowed not allowed not allowed not allowed not allowed not allowed not allowed not allowed not allowed not al	more nich is nich is nore nich by
QMAFANM,  Coliform bacteria (coliforms)  1.0  mass (g) in where the indicator not allowed  S. aureus  1.0  B. cereus  100  CFU/g, not represent the indicator not allowed  CFU/g, not represent the indicator not allowed  CFU/g, not represent the indicator not allowed  CFU/g, not represent the indicator not allowed  CFU/g, not represent the indicator not allowed  CFU/g, not represent the indicator not allowed  CFU/g, not represent the indicator not allowed  CFU/g, not represent the indicator not allowed  CFU/g, not represent the same  (as amended by Amendments and Additions No. 2, approved  Resolution No. 41 of Chief State Sanitary Inspector of the RF decreases	more nich is nich is nore nich by
QMAFANM,  Coliform bacteria (coliforms)  1.0  mass (g) in where the indicator not allowed solution in the indicator not allowed solution in the indicator not allowed solution in the indicator not allowed solution in the indicator not allowed solution in the indicator not allowed solution in the indicator not allowed solution in the indicator not allowed solution in the same (as amended by Amendments and Additions No. 2, approved Resolution No. 41 of Chief State Sanitary Inspector of the RF dataset in the indicator of the RF dataset solution in the same (as amended by Amendments and Additions No. 2, approved Resolution No. 41 of Chief State Sanitary Inspector of the RF dataset in the indicator not allowed in the same (as amended by Amendments and Additions No. 2, approved Resolution No. 41 of Chief State Sanitary Inspector of the RF dataset in the indicator not allowed in the indicator not allowed in the indicator not allowed in the indicator not allowed in the indicator not allowed in the indicator not allowed in the indicator not allowed in the indicator not allowed in the indicator not allowed in the indicator not allowed in the indicator not allowed in the indicator not allowed in the indicator not allowed in the indicator not allowed in the indicator not allowed in the indicator not allowed in the indicator not allowed in the indicator not allowed in the indicator not allowed in the indicator not allowed in the indicator not allowed in the indicator not allowed in the indicator not allowed in the indicator not allowed in the indicator not allowed in the indicator not allowed in the indicator not allowed in the indicator not allowed in the indicator not allowed in the indicator not allowed in the indicator not allowed in the indicator not allowed in the indicator not allowed in the indicator not allowed in the indicator not allowed in the indicator not allowed in the indicator not allowed in the indicator not allowed in the indicator not allowed in the indicator not allowed in the indicator not allowed in th	more nich is nich is nore nich by
QMAFANM,  Coliform bacteria (coliforms)  1.0  mass (g) in where the indicator not allowed  S. aureus  1.0  mass (g) in where the indicator not allowed  B. cereus  100  CFU/g, not retain than  Pathogenic, including  salmonella  Moulds  Moulds  Teast  100  Teast  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Than  100  Th	more nich is nich is more nich by ated
QMAFANM,  Coliform bacteria (coliforms)  1.0  mass (g) in where the indicator not allowed solution in the indicator not allowed solution in the indicator not allowed solution in the indicator not allowed solution in the indicator not allowed solution in the indicator not allowed solution in the indicator not allowed solution in the indicator not allowed solution in the same (as amended by Amendments and Additions No. 2, approved Resolution No. 41 of Chief State Sanitary Inspector of the RF dataset in the indicator of the RF dataset solution in the same (as amended by Amendments and Additions No. 2, approved Resolution No. 41 of Chief State Sanitary Inspector of the RF dataset in the indicator not allowed in the same (as amended by Amendments and Additions No. 2, approved Resolution No. 41 of Chief State Sanitary Inspector of the RF dataset in the indicator not allowed in the indicator not allowed in the indicator not allowed in the indicator not allowed in the indicator not allowed in the indicator not allowed in the indicator not allowed in the indicator not allowed in the indicator not allowed in the indicator not allowed in the indicator not allowed in the indicator not allowed in the indicator not allowed in the indicator not allowed in the indicator not allowed in the indicator not allowed in the indicator not allowed in the indicator not allowed in the indicator not allowed in the indicator not allowed in the indicator not allowed in the indicator not allowed in the indicator not allowed in the indicator not allowed in the indicator not allowed in the indicator not allowed in the indicator not allowed in the indicator not allowed in the indicator not allowed in the indicator not allowed in the indicator not allowed in the indicator not allowed in the indicator not allowed in the indicator not allowed in the indicator not allowed in the indicator not allowed in the indicator not allowed in the indicator not allowed in the indicator not allowed in the indicator not allowed in the indicator not allowed in th	more nich is nich is more nich by ated

## 3.3.3. Dry Milk High-Protein Products

(as amended by Amendments and Additions No. 2, approved by Resolution No. 41 of Chief State Sanitary Inspector of the RF dated 15.04.2003)

## 1) Nutritional value (in 1000 g of a ready-to-eat product)

Criteria and indices	Measuremen t Units	Permissik	ole levels	Notes
		standard	marked	
1	2	3	4	5
Protein (as amended by Amendm Resolution No. 41 of 15.04.2003)				
Mineral substances:				
calcium potassium sodium	mg the same the same	1130 1450 900	+ + +	
magnesium iron	the same the same	210 11	+ +	
ash (as amended by Amendm Resolution No. 41 of 15.04.2003) Vitamins:				
Retinol (A)	mg-eg	0.18	+	
Tocopherol (E) Calciferol (D) Thiamine (B1)	mg mg the same	3.3 12 1.6	+ + +	
Riboflavin (B2) Pyridoxin (B6) Niacin (PP)	the same the same	3.6 1.6 14	+ + +	
Ascorbic acid (C)	the same	66	+	
(as amended by Amendm Resolution No. 41 Chief State Sanitary				

Indices	Permissible levels,	Notes
	mg/kg, not more	
	than	
1	2	3
Indications of oxidative		
deterioration:		
Peroxide value	4.0	mmol of active
		oxygen/kg of
		fat
Toxic elements:		
Lead	0.02	
(as amended by Amendments	and Additions No.	18, approved by
Resolution No. 71 of Chief Sta	te Sanitary Inspecto	or of the RF dated
28.06.2010)		
Arsenic	0.05	
Cadmium	0.02	
Mercuric	0.005	
Mycotoxins:		
Aflatoxin M1	not allowed	< 0.00002

Antibiotics <*>:		
laevomycetin (chloramphenicol)	0.01	Expiring or 01.01.2012.
	0.0003	Shall become effective since 01.01.2012.
tetracycline group	0.01	
penicillins	0.004	
Streptomycin	0.2	
(as amended by Amendments No. Chief State Sanitary Inspector		
Pesticides <**>: hexachlorocyclohexane (alpha- , beta-, gamma isomers)	0.02	
DDT and its metabolites	0.01	
Radionuclides: (as amended by Amendments Resolution No. 41 of Chief Sta 15.04.2003)		No. 2, approved by ector of the RF dated
Microbiological indicators:		for dry product
QMAFAnM,	2.5 x 1E4	CFU/g, not more than
Coliform bacteria (coliforms)	0.3	mass (g) in which the indicator is not allowed
S. aureus	1.0	the same
Pathogenic, including salmonella and L.	50	the same
monocytogenes Moulds	100	CFU/g, not more
Yeast	50	the same
dioxins (introduced by Amendments a Resolution No. 43 of Chief Sta 16.07.2008)		o. 10, approved by ector of the RF dated
Melamine (introduced by Amendments No. Chief State Sanitary Inspector		

## 3.3.4. Low-Protein Products

(Starch, Cereal and Pasta)

# 1) Nutritional value (in 100 g of the product)

Criteria and indices	Measuremen t Units	Permissible levels		Notes
		standard	marked	
1	2	3	4	5
STARCH			l	
Protein	g,	1.0	+	
	not more			
Hydrocarbons	g	75 - 85	+	
Energy value	kcal	300 - 350	+	
CEREAL				
Protein	g,	1.0	+	
	not more			
Fat	g	0.5 - 1.0	+	
Hydrocarbons	the same	80 - 90	+	
Energy value	kcal	350 - 400	+	
(as amended by Amer Resolution No. 41 of ( 15.04.2003)				
PASTA				
Protein	g,	1.0	+	
	not more			
Fat	the same	1.0	+	
Hydrocarbons	g	80 - 90	+	
Energy value	kcal	330 - 380	+	
(as amended by Amer Resolution No. 41 of C				pproved by ne RF dated
15.04.2003)	.1	50	+	
Mineral substances sodium	mg,	30	T	
	not more			
	than			

## 2) Safety indices

Indices	Permissible levels,	Notes
	mg/kg, not more	
1	than 2	3
1	۷	3
Toxic elements:		
lead	0.3	
arsenic cadmium	0.2	
mercury	0.03	
-	0.00	
Mycotoxins: aflatoxin B1	not allowed	< 0.00015
zearalenone	not allowed	< 0.00013 < 0.005 from
Zealalenone	1100 411054	wheat, maize,
		barley
		_
T-2 toxin	not allowed	< 0.05
dezoxynivalenol	not allowed	< 0.05 from
		wheat, barley
ochratoxin A	not allowed	< 0.0005 from
		wheat, rye,
		barley, oat, rice
(introduced by Amendments a	 and Additions No	10 approved by
(introduced by Amendments a Resolution No. 43 of Chief Sta		10, approved by
16.07.2008)	ice banifeary inspected	or one m added
Pesticides <**>:		
nexachlorocyclohexane (alpha-,	0.01	
beta-, gamma isomers)		
DDT and its metabolites	0.01	
Benz(a)pyrene	not allowed	< 0.2 mkg/kg
Radionuclides:		in a ready to eat
Radionaciides.		in a ready-to-eat product
		produce
caesium-137	40	Bq/kg
strontium-90	25	the same
(as amended by Amendments		ļ
Resolution No. 71 of Chief Sta	ate Sanitary Inspecto	or of the RF dated
28.06.2010)		
Harmful contaminants:		
pest contamination and	not allowed	
infestation of grain	not allowed	
(insects,		
mites) and metallic impurities	3 x 1E4	%, size of
		separate
		particles shall
		not exceed 0.3 mm
		in the largest linear
		measurement
Microbiological indicators:		
QMAFAnM,	3 x 1E3	CFU/g, not more
Z.11.1.1.1111	J A IIJ	than
Coliform bacteria (coliforms)	1.0	mass (g) in which
		the indicator is
0	1 0	not allowed
S. aureus B. cereus	1.0	the same CFU/g, not more
2. 301040	100	than
Pathogenic, including	50	mass (g) in which
salmonella		the indicator is
Moulds	50	not allowed CFU/g, not more
110 41 40		than

than

# 3.3.5. Products Based on Full or Partial Protein Hydrolysate

Criteria and indices	ľ	Permissik		Notes
-1	t Units		marked	_
1	2	3	4 +	5
Protein (eq)	1 -	12 - 22	Į.	
(as amended by Amen				
Resolution No. 71 of ( 28.06.2010)	iniei State	Sanitary Ins	pector of the	e RF dated
Taurin	mg/l	40 - 55	+	I
L-carnitine	the same	10 - 25	+	
Fat	g/l	25 - 35	+	
Linoleic acid	% from the		+	
	sum of			
	fatty			
	acids, not			
	less than			
the same	mg/l, not	4000	_	
	less than			
Hydrocarbons	g/l	70 - 95	+	
Energy value	kcal/l	650 - 720	+	
(as amended by Amer				
Resolution No. 41 of (	Chief State	Sanitary Ins	pector of the	e RF date
15.04.2003)	1 ,-	I	ı	1
Mineral substances	:mg/l	330 - 980	+	
calcium	1	l		1
(as amended by Amen				
Resolution No. 71 of C	Chief State	Sanitary Ins	pector of the	e RF date
28.06.2010)	L / 1	I 150 600	Ι .	ı
phosphorus		150 - 600		
(as amended by Amen				
Resolution No. 71 of C	niei State	Sanitary ins	pector of the	e Rr date
28.06.2010) potassium	mg/l	400 - 1000	+	ſ
(as amended by Amen				I orowed by
Resolution No. 71 of C				
28.06.2010)	mici beace	banicary ins	peccor or end	z ili dace
sodium	mg/l	150 - 350	+	1
(as amended by Amen				oroved b
Resolution No. 71 of C				
28.06.2010)				
magnesium	the same	50 - 100	+	
copper	the same	0.3 - 1.0	+	
iron	mg/l	6 - 14	+	
zinc	the same	3 - 10	+	
ash	g/l	4 - 5	+	1
(as amended by Amer		Additions		proved by
Resolution No. 41 of (	Chief State	Sanitary Ins	pector of the	e RF date
15.04.2003)	1	I	1	1
Vitamins: retinol (A)	mkg-eg/l	500 - 800		
tocopherol (E)	mg/l	6 - 14	+ +	
calciferol (D)	mkg/l	5 - 15	+	
thiamine (B1)	the same	400 - 600	+	
riboflavin (B2)	the same	600 - 1000		
pyridoxin (B6)	the same	500 - 700	+	
folic acid (Bc)	the same	50 - 100	+	
cyanocobalamin (B12)	mkg/l	1.5 - 3.0	+	
niacin (PP)	mg/l	3 - 8	+	
ascorbic acid (C)	mg/l	50 - 150	+	
(ac amond all law 7	 	 	oppress 1 1	l
(as amended by Amendme				DF 42+24
Resolution No. 41 of C 15.04.2003)	nrer State S	panitary insp	ecror or tue	rr dated
Osmolality	mOcm/kg,	320	+	1
000141103	not more			
	than			
	1	ı	I	I

1) (as amended by Amendments and Additions No. 18, approved by Resolution No. 71 of Chief State Sanitary Inspector of the RF dated 28.06.2010)

Nutritional value (in a ready-to-eat product)

# 2) Safety Indices

Indices	D	Notes
indices	Permissible levels,	
	mg/kg, not more than	
1	2	3
_	2	J
Indications of oxidative		
deterioration:		
peroxide value	4.0	mmol of active
peroxide varue	1.0	oxygen/kg of
		fat
Toxic elements:		
	0.00	
lead	0.02	10
(as amended by Amendments		
Resolution No. 71 of Chief Sta 28.06.2010)	ate Sanitary Inspects	or or the RF dated
arsenic	0.05	
cadmium	0.02	
mercury	0.005	
Mycotoxins:		
	not allowed	!
(as amended by Amendments		
Resolution No. 41 of Chief Sta	ate Sanitary Inspecto	or of the RF dated
15.04.2003)	I	<u> </u>
Pesticides <**>:		
hexachlorocyclohexane (alpha-,	0.02	
beta-, gamma isomers)		
DDT and its metabolites	0.01	the same
	0.01	che same
Radionuclides:		
caesium-137	40	Bq/l
strontium-90	25	the same
(as amended by Amendments		
Resolution No. 71 of Chief Sta	ate Sanitary Inspecto	or of the RF dated
28.06.2010)		
Microbiological indicators:		for dry product
QMAFAnM,	2 x 1E3	CFU/g, not more
		than
Coliform bacteria (coliforms)	1.0	mass (g) in which
		the indicator is
C	1 0	not allowed
S. aureus B. cereus	1.0	the same CFU/q, not more
D. Cerens	100	than
Pathogenic, including	100	mass (g) in which
salmonella		the indicator is
		not allowed
Moulds	50	CFU/g, not more
		than
Yeast	10	the same
	1	

Amendments and Additions No. 18, approved by Resolution No. 71 of Chief State Sanitary Inspector of the RF dated 28.06.2010 the line "Energy value" of part "1) Nutritional value (in a ready-to-eat product) of Clause 3.3.5.1 has been revised and amended.

utritional value (in a ready-to-e Criteria and indices	Measuremen	Permissik	ole levels	Notes
	t Units			1,000
		standard	marked	
1	2	3	4	5
Protein (eq)	g/l	16 - 20	+	
as amended by Amendesolution No. 71 of Cl 8.06.2010)				
Phenylalanyl	mg/l, not more than	500	+	in product based aminor ds mixturabsen
Taurin	mg/l	40 - 55	+	
L-carnitine	the same	10 - 25	+	
Fat	g/l	30 - 38	+	
Linoleic acid	% from the sum of fatty acids, not		+	
the same	<pre>less than mg/l, not less than</pre>	5000	-	
Hydrocarbons	g/l	65 - 80	+	
as amended by Amendesolution No. 41 of Cl 5.04.2003) Mineral substances:				proved e RF da
calcium	mg/l	300 - 700	+	
phosphorus	the same	300 - 500	+	
potassium	mg/l	500 - 800	+	
sodium	the same	150 - 300	+	
magnesium	the same	40 - 60 0.3 - 1.0	+	
copper iron	mg/l	3 - 14	+	
zinc	the same	4 - 10	+	
Iodine	mkg/l	50 - 120	+	
introduced by Amendmesolution No. 71 of Cl 8.06.2010)				proved e RF da
ash	g/l	4 - 5	+	
Vitamins: retinol (A)	mkg-eq/l	500 - 800	+	
pyridoxin (B6)	the same	300 - 700	+	
	the same		+	
·			+	
		1	1	1
folic acid (Bc)	the same	50 - 100 1.5 - 3.0	+	

ascorbic acid (C)	mg/l	20 - 100	+	
	mOcm/kg, not more than	320	+	

(as amended by Amendments and Additions No. 18, approved by Resolution No. 71 of Chief State Sanitary Inspector of the RF dated 28.06.2010)

Indices	Domming ible levels	Notes
indices	Permissible levels,	
	mg/kg, not more	
1	than 2	3
1	Δ	3
Toxic elements:		
	0.00	
lead	0.02	
(as amended by Amendments		
Resolution No. 71 of Chief Sta	ate Sanitary Inspecto	or of the RF dated
28.06.2010)	1	I
arsenic	0.05	
cadmium	0.02	
mercury	0.005	
Pesticides <**>:		
	0.02	
hexachlorocyclohexane (alpha-,	0.02	
beta-, gamma isomers)		
DDT and its metabolites	0.01	
Radionuclides:		
Radionuclides:	according to Clause	
	3.3.1	
Microbiological indicators:	3.3.1	for dry products
Microbiological indicators.		7 1
QMAFAnM Coliform bacteria	2 x 1E2 1.0	CFU/q, not more
(coliforms)	Z X IEZ I.U	CFU/g, not more than,
(COTITOTING)		·
		mass of product
		(g), in which the
		indicator is not
C 2117011C	1.0	allowed the same
S. aureus		,
B. cereus	100	CFU/g, not more than
Dathagania ingluding	100	mass (g) in which
Pathogenic, including		the indicator is
salmonella		not allowed
Moulds	50	CFU/g, not more
		than
Yeast	10	the same
Indications of oxidative		
deterioration:		
(introduced by Amendments a		10, approved by
Resolution No. 43 of Chief Sta	ate Sanitary Inspecto	or of the RF dated
16.07.2008)		
peroxide value	4.0	mmol of active
		oxygen/kg of fat
(introduced by Amendments -	Ind Additions M-	10 200-200-2
(introduced by Amendments a		10, approved by
Resolution No. 43 of Chief Sta 16.07.2008)	ice Sanitary inspecto	or our the KF dated
10.07.2000)		

#### 3.3.6. Freeze-Dried Products

# 3.3.6.1. Milk Based Freeze-Dried Products (Curds, etc.)

# 1) Nutritional value (in 100 g of the product)

Criteria and indices	Measureme nt Units	Permissible levels		Notes
		standard	marked	
Protein	g	60 - 65	+	
Fat	the same	20 - 25	+	
Hydrocarbons	the same	9 - 11	+	
Energy value	kcal	330 - 380	+	
Vitamins:				
retinol (A)	mkg-eq	100	+	
riboflavin (B2)	the same	0.3	+	
(as amended by Amend	lments and	Additions	No. 2, app	proved by
Resolution No. 41 of Ch	nief State	Sanitary Ins	pector of the	e RF dated
15.04.2003)				
Acidity of	0	150	+	
reconstituted products	T, not			
	more than			

Indices	Permissible levels, mg/kg, not more than	
1	2	3
Toxic elements:		
lead	0.15	
arsenic	0.15	
cadmium	0.06	
mercury	0.015	
Mycotoxins:		
aflatoxin M1	not allowed	< 0.00002
Antibiotics <*>:	according to Clause 3.3.3	
Pesticides <**>:		
hexachlorocyclohexane (alpha-, beta-, gamma isomers)	0.05	
DDT and its metabolites	0.03	
Radionuclides:		
caesium-137		Bq/kg Specific activity for freeze-dried products shall be determined in a reconstituted product
Strontium-90	25	the same
(as amended by Amendments Resolution No. 71 of Chief Sta 28.06.2010)		
Microbiological indicators:		for dry products
Coliform bacteria (coliforms)	0.3	mass (g), in

S.aureus Pathogenic, including	1.0 50	which the indicator is not allowed the same the same
salmonella Moulds	100	CFU/g, not more
Yeast	50	than the same
Indications of oxidative deterioration:		
(introduced by Amendments a Resolution No. 43 of Chief Sta 16.07.2008)		
peroxide value	4.0	mmol of active oxygen/kg of fat
(introduced by Amendments a Resolution No. 43 of Chief Sta 16.07.2008)		
dioxins	not allowed	
(introduced by Amendments Resolution No. 43 of Chief Sta 16.07.2008)		

## 3.3.6.2. Meat Based Freeze-Dried Products

# 1) Nutritional value (in 100 g of the product)

Criteria and indices	Measuremen t Units	Permissible levels		Notes
		standard	marked	
Protein	g	35 - 50	+	
Fat	the same	15 - 30	+	
Energy value	kcal	280 - 500	+	
Ash	g	3.5 - 4.5	+	

Indices	Permissible levels,	Notes
	mg/kg, not more	
	than	
1	2	3
Toxic elements:		
Lead	0.2	
Arsenic	0.1	
Cadmium	0.03	
Mercury	0.02	
Antibiotics <*>:		
laevomycetin	0.01	Expiring on
(chloramphenicol)		01.01.2012.
	0.0003	Shall become
		effective since
		01.01.2012.
tetracycline group	0.01	

bacitracin	0.02	
(as amended by Amendments No.		esolution No. 79 of
Chief State Sanitary Inspector		
Pesticides <**>:		
hexachlorocyclohexane (alpha- , beta-, gamma isomers)	0.02	
DDT and its metabolites	0.01	
Radionuclides:	1	
caesium-137	40	Bq/kg Specific activity for freeze-dried products shall be determined in a reconstituted product
Strontium-90	25	the same
(as amended by Amendments a Resolution No. 71 of Chief Sta 28.06.2010)		tor of the RF dated
Microbiological indicators:		for dry products
FOR CHILDREN of UP TO 2 YEARS (	OLD	
QMAFAnM,	1 x 1E4	CFU/g, not more
Coliform bacteria (coliforms)	1.0	than mass (g) in which the indicator is not allowed
S. aureus Sulfite-reducing clostridia	1.0	the same the same
B. cereus	100	CFU/g, not more than
Pathogenic, including salmonella	50	mass (g) in which the indicator is not allowed
Moulds	50	CFU/g, not more
Yeast	50	than the same
FOR CHILDREN OLDER THAN 2 YEARS	S OLD	
QMAFAnM,	1.5 x 1E4	CFU/g, not more
Coliform bacteria (coliforms)	1.0	than mass (g) in which the indicator is not allowed
S. aureus Sulfite-reducing clostridia	1.0	the same the same
B. cereus	200	CFU/g, not more than
Pathogenic, including salmonella	50	mass (g) in which the indicator is
Moulds	100	not allowed CFU/g, not more
Yeast	50	than the same

dioxins not allowed

(introduced by Amendments and Additions No. 10, approved by Resolution No. 43 of Chief State Sanitary Inspector of the RF dated 16.07.2008)

## 3.3.6.3. Freeze-Dried Products on Vegetable Basis

# Safety indices

Indices	Permissible levels, mg/kg, not more than	
1	2	3
Toxic elements:		
lead	1.0	
arsenic	0.2	
cadmium	0.1	
mercury	0.03	
Pesticides <**>:		
hexachlorocyclohexane (alpha-, beta-, gamma isomers)	0.1	
DDT and its metabolites	0.1	
Heptachlor	not allowed	< 0.002
Aldrin	not allowed	< 0.002
Mycotoxins:		
patuline	not allowed	< 0.02, for products containing apples, tomatoes, sea-buckthorn
Radionuclides:		
caesium-137		Bq/kg Specific activity for freeze-dried products shall be determined in a reconstituted product
Strontium-90	25	the same
(as amended by Amendments Resolution No. 71 of Chief Sta 28.06.2010)		

## 3.3.7. Products for Premature Infants

# 1) Nutritional value (in a ready-to-eat product)

Criteria and indices	Measuremen t Units	Permissible levels		Notes
		standard	marked	
1	2	3	4	5
Protein	g/l	18 - 24	+	
Milk whey proteins	% of total protein quantity	60	-	
Casein Taurine	the same mg/l	40 45 - 60	-+	

Fat	g/l	34 - 45	+	
(as amended by Ame	_		io. 18.	approved by
Resolution No. 71 of				
28.06.2010)	CHICL DEACE	banicary insp	CCCOI OI	ciic iti dacca
Linoleic acid	% of the	14 - 20	+	
dinorcie acia				
	fatty			
, , , , , ,	acids		. 10	
(as amended by Ame				approved by
Resolution No. 71 of	Chief State	Sanitary Insp	ector of	the RF dated
28.06.2010)	/ 3	l 65 00 l		I
Hydrocarbons, includi		65 - 90	+	
lactose	the same	35 - 50	+	
Energy value	kcal/l	700 - 800	+	
Mineral substance	s:mg/l	600 - 1200	+	
calcium				
(as amended by Ame				
Resolution No. 71 of	Chief State	Sanitary Insp	ector of	the RF dated
28.06.2010)				
phosphorus	the same	400 - 700	+	
potassium	the same	650 - 1000	+	
sodium	the same	260 - 350	+	
magnesium	the same	70 - 100	+	
copper	the same	0.4 - 1.4	+	
iron	mg/l	4.0 - 11.0	+	
(as amended by Ame	ndments and	Additions N	Io. 18,	approved by
Resolution No. 71 of	Chief State	Sanitary Insp	ector of	the RF dated
28.06.2010)				
zinc	the same	5 - 12	+	
chlorides	the same	450 - 700	+	
manganese	mkq/l	30 - 300		
mariganese	mxg/ I	30 - 300	+	
•	_	1		approved by
(as amended by Ame	ndments and	Additions N	To. 18,	
(as amended by Ame Resolution No. 71 of 28.06.2010)	ndments and	Additions N Sanitary Insp	To. 18,	
(as amended by Ame Resolution No. 71 of	ndments and	Additions N	To. 18,	
(as amended by Ame Resolution No. 71 of 28.06.2010)	ndments and Chief State	Additions N Sanitary Insp	lo. 18, ector of	
(as amended by Ame Resolution No. 71 of 28.06.2010) iodine	ndments and Chief State	Additions N Sanitary Insp	lo. 18, ector of	
(as amended by Ame Resolution No. 71 of 28.06.2010) iodine Vitamins:	ndments and Chief State the same mkg-eq/1	Additions N Sanitary Insp 70 - 220 600 - 1200	10. 18, ector of + +	the RF dated
(as amended by Ame Resolution No. 71 of 28.06.2010) iodine Vitamins: retinol (A)	ndments and Chief State the same mkg-eq/l endments and	Additions N Sanitary Insp 70 - 220 600 - 1200 Additions	18, ector of + + No. 2,	the RF dated
(as amended by Ame Resolution No. 71 of 28.06.2010) iodine Vitamins: retinol (A) (as amended by Ame Resolution No. 41 of	ndments and Chief State the same mkg-eq/l endments and	Additions N Sanitary Insp 70 - 220 600 - 1200 Additions	18, ector of + + No. 2,	the RF dated
(as amended by Ame Resolution No. 71 of 28.06.2010) iodine Vitamins: retinol (A) (as amended by Ame Resolution No. 41 of 15.04.2003)	ndments and Chief State the same mkg-eq/l endments and	Additions N Sanitary Insp 70 - 220 600 - 1200 Additions	18, ector of + + No. 2,	the RF dated
(as amended by Ame Resolution No. 71 of 28.06.2010) iodine Vitamins: retinol (A) (as amended by Ame Resolution No. 41 of 15.04.2003) tocopherol (E)	ndments and Chief State  the same  mkg-eq/l endments and Chief State  mg/l	Additions N Sanitary Insp 70 - 220 600 - 1200 Additions Sanitary Insp 4 - 16	10. 18, ector of + + No. 2, ector of +	approved by
(as amended by Ame Resolution No. 71 of 28.06.2010) iodine Vitamins: retinol (A) (as amended by Ame Resolution No. 41 of 15.04.2003) tocopherol (E) (as amended by Ame	ndments and Chief State  the same  mkg-eq/l endments and Chief State  mg/l ndments and	Additions N Sanitary Insp 70 - 220 600 - 1200 Additions Sanitary Insp 4 - 16 Additions N	18, ector of  +  No. 2, ector of  +  Ho. 18,	approved by the RF dated
(as amended by Ame Resolution No. 71 of 28.06.2010) iodine Vitamins: retinol (A) (as amended by Ame Resolution No. 41 of 15.04.2003) tocopherol (E) (as amended by Ame Resolution No. 71 of	ndments and Chief State  the same  mkg-eq/l endments and Chief State  mg/l ndments and	Additions N Sanitary Insp 70 - 220 600 - 1200 Additions Sanitary Insp 4 - 16 Additions N	18, ector of  +  No. 2, ector of  +  Ho. 18,	approved by the RF dated
(as amended by Ame Resolution No. 71 of 28.06.2010) iodine Vitamins: retinol (A) (as amended by Ame Resolution No. 41 of 15.04.2003) tocopherol (E) (as amended by Ame Resolution No. 71 of 28.06.2010)	ndments and Chief State  the same  mkg-eq/l endments and Chief State  mg/l ndments and	Additions N Sanitary Insp 70 - 220 600 - 1200 Additions Sanitary Insp 4 - 16 Additions N Sanitary Insp	18, ector of  +  No. 2, ector of  +  Ho. 18,	approved by the RF dated
(as amended by Ame Resolution No. 71 of 28.06.2010) iodine Vitamins: retinol (A) (as amended by Ame Resolution No. 41 of 15.04.2003) tocopherol (E) (as amended by Ame Resolution No. 71 of 28.06.2010) calciferol (D)	ndments and Chief State  the same  mkg-eq/l endments and Chief State  mg/l ndments and Chief State	Additions N Sanitary Insp 70 - 220 600 - 1200 Additions Sanitary Insp 4 - 16 Additions N Sanitary Insp	Ho. 18, ector of + Ho. 18, ector of cettor of	approved by the RF dated
(as amended by Ame Resolution No. 71 of 28.06.2010) iodine Vitamins: retinol (A) (as amended by Ame Resolution No. 41 of 15.04.2003) tocopherol (E) (as amended by Ame Resolution No. 71 of 28.06.2010) calciferol (D) vitamin K	ndments and Chief State  the same  mkg-eq/l endments and Chief State  mg/l ndments and Chief State  mg/l	Additions N Sanitary Insp 70 - 220 600 - 1200 Additions Sanitary Insp 4 - 16 Additions N Sanitary Insp	Ho. 18, ector of + No. 2, ector of + Ho. 18, ector of +	approved by the RF dated
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Indices	D	Notes
indices	Permissible levels,	
	mg/kg, not more	
1	than 2	3
±	2	3
Toxic elements:	0.00	
lead	0.02	
(as amended by Amendments		
Resolution No. 71 of Chief Sta	ate Sanitary Inspect	or of the RF dated
28.06.2010)		1
arsenic	0.05	
cadmium	0.02	
mercury	0.005	
Mycotoxins:	not allowed	< 0.00002
aflatoxin M1		
Antibiotics <*>:		
laevomycetin	0.01	Expiring on
(chloramphenicol)		01.01.2012.
	0.0003	Shall become
		effective since
		01.01.2012.
tetracycline group	0.01	
penicillins	0.004	
Streptomycin	0.2	
(as amended by Amendments No.		solution No. 70 of
Chief State Sanitary Inspector		
Pesticides <**>:	or the Kr dated or.	00,2011)
	0.005	
hexachlorocyclohexane (alpha-	0.003	
, beta-, gamma isomers) DDT and its metabolites	0.005	
Radionuclides:	0.003	
caesium-137	1.0	n /1
caesium-13/	40	Bq/kg
		Specific activity
		for freeze-dried
		products shall be
		determined in a
		reconstituted
		product
Strontium-90	25	the same
		0110 001110
(as amended by Amendments	and Additions No.	·
,		18, approved by
Resolution No. 71 of Chief Sta		18, approved by
Resolution No. 71 of Chief Sta 28.06.2010)		18, approved by or of the RF dated
Resolution No. 71 of Chief Sta	te Sanitary Inspect	18, approved by
Resolution No. 71 of Chief Sta 28.06.2010)		18, approved by or of the RF dated for dry products
Resolution No. 71 of Chief Sta 28.06.2010) Microbiological indicators:	te Sanitary Inspect	18, approved by or of the RF dated for dry products
Resolution No. 71 of Chief Sta 28.06.2010) Microbiological indicators:	te Sanitary Inspect	18, approved by or of the RF dated for dry products CFU/g, not more than;
Resolution No. 71 of Chief Sta 28.06.2010) Microbiological indicators:	te Sanitary Inspect	18, approved by or of the RF dated for dry products CFU/g, not more than; infant formulas
Resolution No. 71 of Chief Sta 28.06.2010) Microbiological indicators:	te Sanitary Inspect	18, approved by or of the RF dated for dry products CFU/g, not more than; infant formulas reconstituted at
Resolution No. 71 of Chief Sta 28.06.2010) Microbiological indicators:	te Sanitary Inspect	18, approved by or of the RF dated for dry products CFU/g, not more than; infant formulas reconstituted at 37 - 50 degrees C
Resolution No. 71 of Chief Sta 28.06.2010) Microbiological indicators:	te Sanitary Inspect	18, approved by or of the RF dated for dry products CFU/g, not more than; infant formulas reconstituted at 37 - 50 degrees C CFU/g, not more
Resolution No. 71 of Chief Sta 28.06.2010) Microbiological indicators:	te Sanitary Inspect	18, approved by or of the RF dated for dry products CFU/g, not more than; infant formulas reconstituted at 37 - 50 degrees C CFU/g, not more than;
Resolution No. 71 of Chief Sta 28.06.2010) Microbiological indicators:	te Sanitary Inspect	18, approved by or of the RF dated for dry products CFU/g, not more than; infant formulas reconstituted at 37 - 50 degrees C CFU/g, not more than; infant formulas
Resolution No. 71 of Chief Sta 28.06.2010) Microbiological indicators:	te Sanitary Inspect	18, approved by or of the RF dated for dry products CFU/g, not more than; infant formulas reconstituted at 37 - 50 degrees C CFU/g, not more than;

Coliform bacteria (coliforms)	1.0	mass (g) in which the indicator is not allowed
E. coli	10	the same
S. aureus	10	the same
B. cereus	100	CFU/g, not more
		than
Pathogenic, including	100	mass (g) in which
salmonella		the indicator is
		not allowed
Listeria monocytogenes	100	the same
Moulds	50	CFU/g, not more
		than
Yeast	10	the same
Indications of oxidative		
deterioration:		
(introduced by Amendments a	nd Additions No.	10, approved by
Resolution No. 43 of Chief Sta		
16.07.2008)	1 1	
peroxide value	4.0	mmol of active
		oxygen/kg of fat
(introduced by Amendments a	nd Additions No.	1 2 2
Resolution No. 43 of Chief Sta		
16.07.2008)	ise sameary imspect	
dioxins	not allowed	on the milk and
		meat basis
(introduced by Amendments a	nd Additions No.	
Resolution No. 43 of Chief Sta		
16.07.2008)	1 1 1 1	
Melamine	not allowed	< 1 mg/kg (for
		milk based
		products)
(introduced by Amendments No.	I 11 approved by Res	
Chief State Sanitary Inspector		
chief beace banicary inspector	or the Nr dated UI.	10.2000)

<*> It is also required to control residual quantities of the antibiotics used for production of food raw material (see Clause 3.15).

(the note was amended by Amendments and Additions No. 22, approved by Resolution No. 177 of Chief State Sanitary Inspector of the RF dated 27.12.2010)

<*> It is also required to control residual quantities of the pesticides used for production of food raw material (see Clauses 3.12, 3.13).

<***> Products without phenylalanyl or with low-phenylalanyl content designed for children older than 1 year shall contain protein (eq) not less than 20 g/l, and safety indices shall satisfy requirements of Clause 3.3.5.1. Fat and hydrocarbon content in such products is not regulated, vitamin, mineral salts and microelements content shall satisfy physiological needs of human beings of appropriate age.

(the note was amended by Amendments and Additions No. 2, approved by Resolution No. 41 of Chief State Sanitary Inspector of the RF dated 15.04.2003)

# 3.4. Microbiological Safety Indices for Milk Products of Infant Food Produced at Milk Kitchens of Healthcare System

						_
Index, group of			f products			Notes
products	CFU/cm3	whic	h the indi			
	(g),		1	allo		
	not more	Colifo	E. coli	S.	Pathog	
	than	rm		aureus	enic,	
		bacter			includ	
		ia			ing	
		(colif			salmon	
		orms)			ella	
					and	
					L.mono	
					cytoge	
					nes	
(as amended by	_					approved by
Resolution No. 4	l1 of Chi∈	ef Stat	e Sanitar	y Inspecto	or of t	the RF dated
15.04.2003)	_	1	T	T	•	T
1		3	4	5	6	7
3.4.1.	100	10.0	10.0	10.0	100	<*> only
Sterilized					<*>	salmonella
products						
(adapted						
infant						
formulas,						
sterilized						
milk,						
sterilized						
milk cream,						
etc.) of non-						
aseptic						
bottling	F.0.0	1.0.0	10.0	10.0	1.00	
3.4.2.	500	10.0	10.0	10.0		B. cereus
Reconstituted						20 CFU/g,
infant formulas						not more
pasteurized						than
3.4.3.						
Fermented milk						
products:		3.0	10.0	10.0	E O	7
- all products	-	3.0	10.0	10.0	50 <*>	<*> only
except for bifilin						salmonella
DILITIO						; bifidobact
						eria 1 x
						1E6 CFU/g,
						not less
						than, if
						produced
						with the
						use
						thereof;
						acidophili
						c bacteria
						1 x 1E7
						CFU/g, not
I	ĺ		l	l	1	010/9, 1106

less than,

- bifilin	_	10.0	10.0	10.0	50	if produced with the use thereof; microscopi c slide according to Clause 3.1.1.4 Bifidobact eria 1 x 1E7 CFU/g, not less than Microscopi c slide
(as amended by Resolution No. 4						according to Clause 3.1.1.4 approved by the RF dated
3.4.4. Curd products:						
- children curds, acidophilic paste, low-lactose	-	1.0	-	1.0	50 <*>	salmonella; microscopic slide according
<pre>protein paste, etc calcinated curds</pre>	100	1.0	-	1.0	50	to Clause 3.1.1.4
(as amended by Resolution No. 4	_		nd Addit e Sanitar			 approved by the RF dated
3.4.5. Ready- made milk porridges (kashas) (from flour and grits of all types)	1 x 1E3	1.0	-	1.0	50	
3.4.6. Tinctures (from rose hip, black currant, etc.)	5 x 1E3	1.0	10.0	-	50 <*>	<*> only salmonella

3.4.7. Starters (liquid)	-	10.0		10.0	100	Starter population microorgan isms 1 x 1E8 CFU/g, not less than; microscopi c slide according to Clause 3.1.1.4
--------------------------------	---	------	--	------	-----	-----------------------------------------------------------------------------------------------------------------

3.5. Products for Pregnant and Nursing Women

## 3.5.1. Milk and Soya Protein Isolate Based Products

## 1) Nutritional value (in a ready-to-eat product)

Criteria and indices	Measuremen t Units	Permissib	le levels	Notes	
		standard	marked	1	
Protein	g/l	30 - 100	+		
Fat	the same	8 - 35	+		
Hydrocarbons	the same	100 - 140	+		
Energy value	kcal/l	610 - 1300	+		
Mineral substances:					
calcium	mg/l	1200 - 2000	+		
phosphorus	the same	900 - 1400	+		
calcium/phosphorus	-	1.1 - 2.0	-		
potassium	mg/l	1400 - 2500	+		
sodium	the same	450 - 750	+		
potassium/ sodium	_	2 - 3	_		
magnesium	the same	150 - 250	+		
copper	mkg/l	600 - 1000			
manganese	the same	200 - 250	+		
iron	mg/l the same	30 - 50	+ +		
chlorides	the same	10 - 40 1000 - 1600			
iodine	mkg/l	1000 - 1000	+		
ash	g/1	9 - 12	+		
Vitamins:					
retinol (A)	mkg-eq/l	500 - 1500	+		
tocopherol (E)	the same	10 - 40	+		
calciferol (D)	mkg/l	10 - 15	+		
vitamin K	the same	50 - 120	+		
thiamine (B1)	mg/l	0.8 - 1.5	+		
riboflavin (B2)	mg/l	0.8 - 1.5	+		
panthotenic acid	the same	8 - 12	+		
pyridoxin (B6)	the same	1.5 - 3.0	+		
niacin (PP)	the same	10 - 25	+		
folic acid (Bc)	the same	0.8 - 2.0 3.0 - 8.0	+		
cyanocobalamin (B12)	mkg/l mg/l	100 - 300	+		
ascorbic acid (C)	mg/ i	100 - 300	Т		
inosite	the same	80 - 120	+		
choline	the same	80 - 120	+		
biotin	mkg/l	80 - 200	+		
(as amended by Amendme Resolution No. 41 of	ents and Add	litions No. 2	, approved by	?	
Chief State Sanitary Inspector of the RF dated 15 04 2003)					

Chief State Sanitary Inspector of the RF dated 15.04.2003)

## 2) Safety indices (in a ready-to-eat product)

(as amended by Amendments and Additions No. 2, Approved by Resolution No. 41 of Chief State Sanitary Inspector of the RF dated 15.04.2003)

Indices	Permissible levels, mg/kg, not more than	
1	2	3
Indications of oxidative		
deterioration:		
Peroxide value	4.0	mmol of active
		oxygen/kg of fat
Toxic elements:		
lead	0.05	
arsenic	0.05	
cadmium	0.02	
mercury	0.005	
Antibiotics <*>:		In milk based
		products
laevomycetin	0.01	Expiring on
(chloramphenicol)		01.01.2012.
	0.0003	Shall become
		effective since
		01.01.2012.
tetracycline group	0.01	
penicillins	0.004	
Streptomycin	0.2	
(as amended by Amendments No. Chief State Sanitary Inspector		
Mycotoxins:	not allowed	< 0.00002, for
aflatoxin M1		milk based
		products
aflatoxin B1	not allowed	< 0.00015, for
	lioc arrowed	soya based
		products
Pesticides:		Products
hexachlorocyclohexane (alpha-	0.02	
, beta-, gamma isomers)	0.02	
DDT and its metabolites	0.01	
(as amended by Amendments		22. approved by
Resolution No. 177 of Chief St		
27.12.2010)	acc ballicary illspece	or or the Ri dated
Radionuclides:		
caesium-137	40	Bq/l
strontium-90	-	the same
(as amended by Amendments	1	•
Resolution No. 71 of Chief Sta		
28.06.2010)	and said and subject to	1_ 11 0110 111 dacca
dioxins	not allowed	for milk based
		products

(introduced by Amendments and Additions No. 10, approved by Resolution No. 43 of Chief State Sanitary Inspector of the RF dated 16.07.2008)

Melamine	not allowed	< 1 mg/kg (for
		milk based
		products

(introduced by Amendments No. 11, approved by Resolution No. 56 of Chief State Sanitary Inspector of the RF dated 01.10.2008)

#### Microbiological indicators:

#### 3.5.1.1. Dry Instant Products

QMAFAnM,	2.5 x 1E4	CFU/g, not more than
Coliform bacteria (coliforms)	1.0	mass (g) in which the indicator is not allowed
E. coli	10	the same
S. aureus	1.0	the same
B. cereus	200	CFU/g, not more than
Pathogenic, including salmonella and L.	50	mass (g) in which the indicator is
monocytogenes Moulds	100	not allowed CFU/g, not more than
Yeast	50	the same

(Clause 3.5.1.1 as amended by Amendments and Additions No. 2, approved by Resolution No. 41 of Chief State Sanitary Inspector of the RF dated 15.04.2003)

#### 3.5.1.2. Sterilized Flavourless Liquid Products

Shall satisfy requirements for industrial sterility for sterilized milk in accordance with Annex 8 to these Sanitary Rules (as amended by Amendments and Additions No. 2, approved by Resolution No. 41 of Chief State Sanitary Inspector of the RF dated 15.04.2003)

# 3.5.1.3. Liquid Fermented Milk Products and Fermented Soybean Products

Coliform bacteria (coliforms)	3	volume (cm3), in
		which the
		indicator is not
		allowed
S. aureus	10	the same
B. cereus	1.0	volume (cm3)
Pathogenic, including	50	the same
salmonella and L.		
monocytogenes		
Bifidobacteria	1 x 1E6	CFU/cm3, not less
		than, if produced
		with the use
		thereof
Lactic acid microorganisms	1 x 1E7	CFU/cm3, not
		less than
Moulds	10	CFU/cm3, not
		more than
Yeast	10	CFU/cm3, not
		more than

(as amended by Amendments and Additions No. 2, approved by Resolution No. 41 of Chief State Sanitary Inspector of the RF dated 15.04.2003)

## 3.5.2. Milk and Grain Based Porridges (Kashas) (instant)

# 1) Nutritional value (in 100 g of the product)

Criteria and indices	Measureme nt Units	Permissik	ole levels	Notes
		standard	marked	
1	2	3	4	5
Moisture	g	4 - 6	-	
Protein	g	10 - 14	+	
Fat	g	2 - 10	+	
Hydrocarbons	the same	70 - 80	+	
Energy value	kcal	340 - 460	+	
Ash	g	0.5 - 3.5	-	
Mineral substances:				
sodium	mg, not	250	+	
calcium	more than mg	200 - 500	+	for enriched
				products
iron	the same	20 - 50	+	the same
Vitamins:				
retinol (A)	mkg-eq	300 - 400	+	for vitaminiz ed products
vitamin E	mq	5 - 12	+	the same
vitamin D	mkg	5 - 10	+	the same
vitamin C	mg	30 - 120	+	the same
thiamine (B1)	mg	0.2 - 0.7	+	the same
riboflavin (B2)	the same	0.3 - 0.8	+	the same
niacin (PP)	mg	5 - 12	+	the same
folic acid (Bc)	mkg	600 - 1200	1	the same
(as amended by Amendme Resolution No. 41 of C 15.04.2003)				

# 2) Safety Indices

Indices	Permissible levels,	Notes
	mg/kg, not more	
	than	
1	2	3
Toxic elements:		
lead	0.3	
arsenic	0.2	
cadmium	0.06	
mercury	0.03	
Mycotoxins:		
aflatoxin M1	not allowed	< 0.00002
aflatoxin B1	not allowed	< 0.00015
dezoxynivalenol	not allowed	< 0.05 for wheat,
		barley
zearalenone	not allowed	< 0.0 05 for

		wheat, barley
	not allowed not allowed	< 0.05 < 0.0005 from
OCHIALOXIII A	not allowed	
		wheat, rye,
(introduced by Amendments a	nd Additions No	barley, oat, rice
Resolution No. 43 of Chief Sta		
16.07.2008)	te banicary inspect	or or the Kr dated
	according to Clause	9
	3.5.1	
(as amended by Amendments	and Additions No.	22, approved by
Resolution No. 177 of Chief Sta	ate Sanitary Inspect	or of the RF dated
27.12.2010)		
Pesticides <*>:		
(as amended by Amendments		
Resolution No. 177 of Chief Sta	ate Sanitary Inspect	or of the RF dated
27.12.2010)		
	according to Clause	9
	3.1.2.1	0
(as amended by Amendments Resolution No. 41 of Chief Sta		
15.04.2003)	re panitary inspect	or or the kr dated
	not allowed	< 0,2 mkg/kg
Radionuclides (in a ready-to-		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
eat product):		
caesium-137	40	Bq/kg
strontium-90	25	the same
(as amended by Amendments	and Additions No.	2, approved by
Resolution No. 41 of Chief Sta	te Sanitary Inspect	or of the RF dated
15.04.2003, No. 18, approved	by Resolution No.	71 of Chief State
Sanitary Inspector of the RF da	ated 28.06.2010)	_
Harmful contaminants:		
	not allowed	
infestation of grain		
(insects, mites) Metallic impurities	3 x 1E4	0 -:
Metallic impulities	2 X 1E4	%, size of separate
		particles shall
		not exceed 0.3 mm
		in the largest
		linear
		measurement
Microbiological indicators:		
QMAFAnM,	5 x 1E4	CFU/g, not more
		than
Coliform bacteria (coliforms)	0.1	mass (g) in which
		the indicator is
		not allowed
Pathogenic, including	25	the same
salmonella and L.		
monocytogenes	200	CELL/C
	200	CFU/g, not more
monocytogenes Moulds		than
monocytogenes	100	- ·
monocytogenes Moulds Yeast		than the same
monocytogenes Moulds Yeast	100 not allowed	than the same for milk based products
monocytogenes Moulds Yeast dioxins	100 not allowed nd Additions No.	than the same for milk based products 10, approved by
monocytogenes Moulds Yeast dioxins (introduced by Amendments a Resolution No. 43 of Chief Sta 16.07.2008)	100 not allowed nd Additions No. te Sanitary Inspect	than the same for milk based products 10, approved by
monocytogenes Moulds Yeast dioxins (introduced by Amendments a Resolution No. 43 of Chief Sta 16.07.2008)	100 not allowed nd Additions No.	than the same for milk based products 10, approved by
monocytogenes Moulds Yeast dioxins (introduced by Amendments a Resolution No. 43 of Chief Sta 16.07.2008)	100 not allowed nd Additions No. te Sanitary Inspect	than the same for milk based products 10, approved by or of the RF dated
monocytogenes Moulds Yeast dioxins (introduced by Amendments a Resolution No. 43 of Chief Sta 16.07.2008)	100 not allowed nd Additions No. te Sanitary Inspect	than the same for milk based products 10, approved by or of the RF dated  < 1 mg/kg (for

Chief State Sanitary Inspector of the RF dated 01.10.2008)

# 3.5.3. Fruit and Vegetables Based Products (Fruit, Vegetables Juices, Nectars and Drinks, Fruit Waters) (as amended by Amendments and Additions No. 18, approved by Resolution No. 71 of Chief State Sanitary Inspector of the RF Dated 28.06.2010)

#### 1) Nutritional value (in 100 g of the product)

Criteria and indices	Measuremen t Units	Permissik	ole levels	Notes
		standard	marked	
1	2	3	4	5
Mass fraction of soluble dry substances (juices)		5		
(as amended by Amend Resolution No. 71 of Ch 28.06.2010)				
Hydrocarbons (as amended by Amend Resolution No. 71 of Ch 28.06.2010)	lments and			_
Mineral substances:				
iron	mg	2 - 4		for enriched products
Vitamins:				
ascorbic acid (C)	mg	15 - 30		for vitaminiz ed products
folic acid (Bc) retinol (A) (as amended by Amend Resolution No. 41	mkg mkg-eq dments and	1 - 2 100 - 400 100 - 300 Additions the RF dated	No. 2, app	the same the same the same proved by

#### 2) Safety Indices

Indices	Permissible levels,	Notes
	mg/kg, not more	
	than	

1	2	3
Toxic elements:		
Lead	0.3	
arsenic	0.1	
(as amended by Amendments	and Additions No.	18, approved by
Resolution No. 71 of Chief Sta	ite Sanitary Inspecto	or of the RF dated
28.06.2010)		
Cadmium	0.02	
Mercury	0.01	

Mycotoxins: Patuline	not allowed	< 0.02, for products containing apples, tomatoes, sea-buckthorn
Pesticides: hexachlorocyclohexane (alpha-, beta-, gamma isomers) DDT and its metabolites (as amended by Amendments a Resolution No. 177 of Chief Sta	0.005 and Additions No. ate Sanitary Inspect	or of the RF dated
Nitrates	50	vegetable, and fruit and vegetable based products
(as amended by Amendments a Resolution No. 71 of Chief Sta 28.06.2010)	and Additions No.	
Radionuclides: caesium-137 strontium-90 (as amended by Amendments and Resolution No. 71 of Chief States 28.06.2010)		
5-Oxymethylfurfurol	according to Clause 2.2 and Additions No. te Sanitary Inspecto	and nectars 2, approved by
Microbiological indicators:	Shall satisfy requi industrial sterilit of the correspondin accordance with Ann Sanitary Rules	y for canned food g groups in

#### 3.5.4. Herbal Instant Teas

#### (on vegetable basis)

#### Safety indicators (in ready-to-use product)

Indicators	Permissible levels,	Notes
	mg/kg, not more	
	than	
Toxic elements:		
lead	0.02	
(as amended by Amendments		= = = = = = = = = = = = = = = = = = = =
Resolution of the Chief State	e Sanitary Inspector	of the RF dated
28.06.2010 No. 71)	İ	Ī
arsenic	0.05	
cadmium	0.02	
mercury	0.005	
Pesticides:		
hexachlorocyclohexane	0.02	
(alpha-, beta-, gamma -		
isomers)		
DDT and its metabolites	0.01	
(as amended by Amendments and		
Resolution of the Chief State	Sanitary Inspector o	f the RF dated
27.12.2010 No. 177)		
Microbiological indicators:		
QMAFAnM	5 x 1E3	CFU/g, not more than
Coliform bacteria(coliforms)	1.0	weight (g), in which the
		indicator is not
		allowed
B. cereus	100	CFU/g, not more
		than
Pathogenic, including	25	weight (g), in
salmonella		which the
		indicator is not
		allowed
Mould	50	CFU/g, not more
		than
Yeast	50	the same
(as amended by Amendments and		
Resolution of the Chief State	Sanitary Inspector of	of the RF dated
28.06.2010 No. 71)		

<*> It is also required to control residual quantities of the pesticides and the antibiotics used for production of food raw material (see Clauses 3.12, 3.13, 3.15).

(the note was amended by Amendments and Additions No. 22 approved by Resolution No. 177 of the Chief State Sanitary Inspector of the RF dated 27.12.2010)

#### 3.6. Main Raw Materials and Components Used during Production of Children Food Products

Index,	products	Indicators	Permissible levels,	Notes
group	produces		mg/kg, not more than	
	1	2	3	4
3.6.1. heat tr dry mil and mil compone	reated, lk, cream	Toxic elements, antibiotics, mycotoxins, pesticides, radionuclides	under Item 3.1.1.1	For dry components in reduced product
	·	Inhibitory	not allowed	raw milk and

substances		cream
Dioxins:	not allowed	
Melamine	not allowed	< 1 mg/kg

(as amended by Amendments and Additions No. 10 approved by Resolution No. 43 of the Chief State Sanitary Inspector of the RF dated 16.07.2008, Addition No. 11 approved by Resolution of the Chief State Sanitary Inspector of the RF dated 01.10.2008 No. 56)

Microbiological indicators:						
Index, products	QMAFAnM,	Product	t weight (c	m³, g),	Mould,	Notes
group	CFU/g,	in whi	ch the in	dicator	yeast,	
	not more	is not	allowed		CFU/g,	
	than				not	
		Colif	S. aureus	Pathog	more	
		orm		enic,	than	
		bacte		includ		
		ria		ing		
		(coli				
		forms				

		)		salmon ella		
1	2	3	4	5	6	7
3.6.1.1. Raw cow milk:						somatic cells, not more than 5 x
- top-grade	3 x 1E5	_	-	25		1E5 in 1 cm ³
- 1 st grade	5 x 1E5	_	-	25		Citi
3.6.1.2. Dry milk with weight fraction of fat 2 5%, dry fatless	2.5 x 1E4	1.0	1.0	25.0	Mould - 100; yeast - 50	
3.6.1.3. Concentrate of milk serum protein, produced by electrodialysi s, ultrafiltratio n and electrodialysi	1 x 1E4	1.0	1.0	25	Mould - 50; yeast - 10	
3.6.1.4. Carbohydrate- protein concentrate	1 x 1E4	1.0	1.0	50	Mould - 50; yeast - 10	
3.6.1.5. Milk-protein concentrate	1 x 1E4	1.0	1.0	50	Mould - 50; yeast - 10	
3.6.1.6. Dry carbohydrate- protein mould made from cheese whey		1.0	1.0	25	Mould - 50; yeast - 10	
3.6.1.7. Dry carbohydrate- protein moulds made from curd whey		1.0	1.0	25	Mould - 50; yeast - 10	
3.6.1.8. Liquid paracasein concentrate		3.0	1.0	25		microscope slide

3.6.1.9. Dry paracasein concentrate		1.0	1.0	25	Mould -the same 50; yeast - 50
3.6.1.10. Dry kazetsit	1 x 1E4	1.0	1.0	25	Mould - 50; yeast - 10
3.6.1.11.  Nonfat dry milk component for dry children food products		0.3	1.0	25	Mould - 50; yeast - 10
3.6.1.12. Dry milk component with malt extract (for liquid children food products); nonfat dry milk component (for production of biologically active substances)	1E4	1.0	1.0	25	Mould - 50; yeast - 10
3.6.1.13. Dry milk component with carbohydrate-protein concentrate for liquid children food products		1.0	1.0	25	Mould - 50; yeast - 50
		1.0	1.0	25	Mould - 50; yeast - 50

Index, products		Permissible levels,	Notes
group		mg/kg, not more	
		than	
1	2	3	4
3.6.2. Grain	Toxic elements,	under Item 3.1.2.1	
and and grain	mycotoxins,		
products	pesticides,		
(flour,	injurous		
cereals)	additives,		
	benz(a)pyrene		
	Radionuclides:		
	cesium-137	40	Bq/kg
	strontium-90	25	the same
(as amended by	Amendments a	and Additions No	18 approved by

(as amended by Amendments and Additions No. 18 approved by Resolution of the Chief State Sanitary Inspector of the RF dated 28.06.2010 No. 71)

20.00.2010 NO. /						
T	Micro	obiolog	ical indica	tors:		
_ , , , , ,	I	_ ,		3 ,		L
Index, products						
group	_		ich the ind		_	CFU/g, not
			allowed			more than
	than	Colifo	S. aureus	Pathog		
		rm		enic,	than	
		bacter		includ		
		ia		ing		
		(colif		salmon		
		orms)		ella		
1	2	3	4	5	6	7
3.6.2.1.	$2.5 \times 1E4$	1.0	-	25	100	100
Not treated						
rice,						
buckwheat,						
oat,						
wheat,						
barley cereals						
3.6.2.2. Not	5 x 1E4	0.1	-	25	200	100
treated rice,						
buckwheat, oat,						
rye flour						
3.6.2.3.	1 x 1E4	1.0	1.0	25	50	10
Treated rice,						
buckwheat,						
oat,						
rye flour						
3.6.2.4.	1 x 1E4	1.0	1.0	25	50	50
Semolina						
3.6.2.5 Oatmeal	1 x 1E4	1.0	1.0	25	50	10

(as amended by Amendments and Additions No. 2 approved by Resolution of the Chief State Sanitary Inspector of the RF dated 15.04.2003 No. 41)

Index, products	Indicators	Permissible levels,	Notes
group		mg/kg, not more	
		than	
1	2	3	4
fruit,	Toxic elements:		
vegetables			
	lead	0.3	
	arsenic	0.2	
	cadmium	0.02	
	mercury	0.01	
	Pesticides:		
	hexachlorocycloh exane (alpha-, beta-, gamma -	0.01	
	isomers) DDT and its metabolites	0.005	
(as amended by	Amendments and the Chief State	and Additions No. Sanitary Inspector	
	Nitrates:	600	beet-root
		400	
			cabbage
		200 50	vegetables, bananas, fruit
	Radionuclides:		
	cesium-137	60	Bq/kg
	strontium-90	25	the same
(as amended by	I Amendments a	I and Additions No.	I 10 approved b
Resolution of t 16.07.2008 No. 4		Sanitary Inspector	of the RF date
	Toxic elements	under Item 3.1.3	in terms of initial product (juices) subject to dr substances content in i and in the er product (concentrated juices)
	Mycotoxins: penicidin	not allowed	< 0.02 fc apple, sea buckthorn
	Pesticides:		
	hexachlorocycloh exane hexane(alpha-, beta-, gamma -	0.1	
	isomers) DDT and	0.05	
	he Chief State	  d Additions No.    Sanitary Inspector	  22 approved b     approved b

	Nitrates	100	fruits
		ditions No. 2 approv ector of the RF date	
41)	acc banicary inspo	cetor or the Kr date	a 15.04.2005 No.
3.6.4. Meat of	Toxic elements:		
the livestock			
for slaughter (beef,	Lead	0.1	for children
pork, horsemeat			under 3 years
etc.)		0.2	for children older than 3
			years
	Arsenic	0.1	
	Cadmium	0.03	
	Mercury	0.01	for children
		0.02	under 3 years for children
		0.02	older than 3
			years
	Antibiotics <*>:		
	laevomycetin	0.01	Expiring on
	(chloramphenicol	0.01	01.01.2012.
	,	0.0003	Shall become effective
			since
			01.01.2012.
	tetracycline	0.01	
	group		
	Bacitracin	0.02	
(as amended by A	Amendments No. 24	approved by Resolut	ion of the Chief
State Sanitary	Inspector of the F	RF dated 01.06.2011	No. 79)
	Pesticides:		
	hexachlorocycloh	0.01	for children
	exane (alpha-,		under 3 years
	beta-, gamma -	0.045	
	isomers)	0.015	for children older than 3
	DDT and its	0.01	years for children
	metabolites		under 3 years
		0.015	for children older than 3
,			years
	the Chief State S	d Additions No. Sanitary Inspector	
	,	not allowed	<u> </u>
	Dioxins:	not allowed	
	Radionuclides:		
	cesium-137	70	Bq/kg
	strontium-90	30	the same
		d Additions No. Sanitary Inspector	
16.07.2008 No. 4		-	

3.6.4.1.	Toxic elements:		I
By-products of	lead	0.5	
the livestock	arsenic	1.0	
for slaughter	cadmium	0.3	
(liver, heart,	mercury	0.1	
tongue)	mereury	0.1	
	Antibiotics		
	laevomycetin (chloramphenico 1)	0.01	Expiring on 01.01.2012.
		0.0003	Shall become effective since 01.01.2012.
	tetracycline	0.01	
	group		
,	bacitracin	0.02	
	Pesticides: hexachlorocyclo hexane (alpha-, beta-, gamma - isomers)	0.015	
	DDT and its metabolites	0.015	
(as amended by	Į.	and Additions No.	22 approved by
		Sanitary Inspector	
27.12.2010 No. 3			
	Dioxins:	not allowed	
	Radionuclides:		
	cesium-137	70	Bq/kg
	strontium-90	30	the same
(as amended by	y Amendments	and Additions No.	2 approved by

(as amended by Amendments and Additions No. 2 approved by Resolution of the Chief State Sanitary Inspector of the RF dated 15.04.2003 No. 41, No. 10, approved by Resolution of the Chief State Sanitary Inspector of the RF dated 16.07.2008 No. 43)

	Microbiological indicators:					
Index, products	QMAFAnM,	Product weight (cm³, g),				
group	CFU/g,	in which the in	ndicator i	s not allowed		
	not more					
	than	Coliform bacteria	S. aureus	Pathogenic,		
		(coliforms)		including		
				salmonella and		
				L.		
				monocytogenes		
3.6.4. Meat of		1.0		25		
the livestock						
for slaughter						
(in bulk and						
cut):						
- new-	10	1.0	_	25		
slaughtered						
- chilled	1 x 1E3	0.1	-	25		
- frozen	1 x 1E4	0.01	_	25		

- frozen in1 x blocks and1E5 pieces	0.001	-	25
- by-products - dry food blood 2.5 x 1E4	1.0	1.0	25 25

by Amendments and Additions No. 2 approved by Resolution of the Chief State Sanitary Inspector of the RF dated 15.04.2003 No. 41)

Index, products	Indicators	Permissible levels,	Notes
group	Indicacois	mg/kg, not more	
group		than	
1	2	3	4
3.6.5. Poultry meat	Toxic elements:		
meac	2 1	0.0	
	lead arsenic	0.2	
	cadmium		
	mercury	0.03	
		0.02	
	Antibiotics <*>		
	laevomycetin (chloramphenico	0.01	Expiring on 01.01.2012.
	1)		01.01.2012.
		0.0003	Shall become effective since 01.01.2012.
	tetracycline group	0.01	
	bacitracin	0.02	
		approved by Resolut RF dated 01.06.2011 I	
	Pesticides:	0.02	
	hexachlorocyclo		
	(alpha-, beta-, gamma -		
	isomers)		
	DDT and its metabolites	0.01	
(as amended by Resolution of t	Amendments a	and Additions No. Sanitary Inspector (	
27.12.2010 No. 1	.77)		
	Dioxins:	not allowed	
	Radionuclides:		
	cesium-137	70	Bq/kg
	strontium-90	30	the same
(as amended by An	nendments and Addi	tions No. 10 approved	by Resolution

(as amended by Amendments and Additions No. 10 approved by Resolution of the Chief State Sanitary Inspector of the Russian Federation dated 16.07.2008 No. 43)

	CFU/g,			
	not more than	Coliform bacteria (coliforms)	S. aureus	Pathogenic, including salmonella and L. monocytogenes
1	2	3	4	5
3.6.5.1.				
Carcasses and meat of poultry(taking of samples from deep layers): - chilled, frozen poultry	1 x 1E5			25
- chilled, frozen meat of chicken, broiler	1 x 1E5			25
<pre>chicken - lump meat wtthout bones;</pre>	2 x 1E5			25
deboned meat	1 x 1E6			25
3.6.5.2.	2 x	=	=	25
Chilled poultry by-products	1E5			

Index, products	Indicators	Permissible levels,	Notes
group		mg/kg, not more	
		than	
1	2	3	4
3.6.6. Fish	Toxic elements:		
	lead	0.5	
	arsenic	0.5	
	cadmium	0.1	
	mercury	0.15	
	Antibiotics <*>: fishery	in fish of pond and	cage culture
	tetracycline group	0.01	
_		dditions No. 24 appr	-
Resolution of t 01.06.2011 No.		anitary Inspector of	the RF dated
	Pesticides: hexachlorocyclo hexane (alpha-, beta-,	0.02	

isomers) DDT and its metabolites  (as amended by Amendments an Resolution of the Chief State \$27.12.2010 No. 177)	d Additions No.	
Nitrosamines: sum of nitrosomethylami ne and nitrosodiethylam ine	not allowed	< 0.001
histamine	100	tunny, mackerel, salmon, herring
polychlorinated	2.0	

biphenyls

Dioxins:

Radionuclides:

Inspector of the RF dated 16.07.2008 No. 43)

cesium-137 100 Bq/kg
strontium-90 60 the same

(as amended by Amendments and Additions No. 2 approved by Resolution of the Chief State Sanitary Inspector of the RF dated 15.04.2003 No.

not allowed

Microbiological indicators: Index, products QMAFAnM, Product weight (cm³, g), in which the group CFU/q, indicator is not allowed not more Coliform bacteria S. aureus than Pathogenic, (coliforms) including salmonella and Τ.. monocytogenes 5 x 1E4 0.01 0.01 25 3.6.6. Chilled, subfrozen, frozen raw fish

41, No. 10, approved by Resolution of the Chief State Sanitary

(as amended by Amendments and Additions No. 2 approved by Resolution of the Chief State Sanitary Inspector of the RF dated 15.04.2003 No. 41, No. 10 approved by Resolution of the Chief State Sanitary Inspector of the RF dated 16.07.2008 No. 43)

Index, products group		Permissible levels, mg/kg, not more than	Notes
3.6.7. Refined and deodorized vegetable oil	Toxic elements:  lead arsenic cadmium mercury	0.1 0.1 0.05 0.03	

]	Pesticides:		
	Hexachlorocyclohexane	0.01	
	DDT and its	0.1	
	metabolites		
· · · · ·		and Additions No.	
Resolution of t 27.12.2010 No. 1		Sanitary Inspector	of the RF dated
	Indicators of oxidative spoilage:	2	active oxygen mmole/kg mg KOH/g unit/g
	peroxide value		iton, g unite, g
	acid-degree value	0.6	
	anisidine index	3.0	
	Dioxins:	not allowed	
	Radionuclides:		
	cesium-137	60	Bq/kg
	strontium-90	80	the same
Resolution		and Additions No.	
of the Chief Sta 43)	ate Sanitary Inspe	ector of the RF date	d 16.07.2008 No.

Index, products group	,	Product weight (cm³, g), in which the indicator is not allowed				
	than	Colifo rm bacter ia (colif orms)	us	Pathogen ic, includin g salmonel la	Mould	Yeast
1	2	3	4	5	6	7
3.6.7.1. Refined deodorized maize oil	100	1.0	1.0	25	20	1.0
3.6.7.2. Refined deodorized sunflower oil	500	1.0	1.0	25	100	1.0
3.6.7.3. Soya- bean oil	100	1.0	-	25	20	1.0

		T .						
Index, products	Indicators	Permissible levels,	Notes					
group		mg/kg, not more	2					
		than						
3.6.8. Top-	Toxic elements:							
grade butter	lead	0.1						
Rendered	arsenic	0.1						
poultry fat	cadmium	0.03						
roser rest	mercury	0.03						
	Antibiotics <*>:	including in render	ed poultry fat					
	laevomycetin	_	Expiring on					
	(chloramphenico		01.01.2012.					
	1)	0.01						
			Shall become					
			effective since					
		0.0003	01.01.2012.					
			01.01.2012.					
	tetracycline	0.01						
	group							
	penicillins	0.004						
	streptomycin	0.2						
	1 1							
(as amended by	Amendments No. 24	approved by Resolut	ion of the					
_		of the RF dated 01.00						
	Mycotoxins:	not allowed	< 0.00002					
	aflatoxin M1							
	Pesticides:	0.2						
	Hexachlorocyclo							
	hexane							
	(alpha-, beta-,							
	gamma -							
	isomers)							
	DDT and its	0.2						
		0.2						
/	metabolites	1 7 11 1 4 1 71 -	20					
		d Additions No.						
		Sanitary Inspector	of the RF dated					
27.12.2010 No. 1	•	I						
	Dioxins:	not allowed						
	Radionuclides:		- /:					
	cesium-137	40	Bq/kg					
	strontium-90	25	the same					
(as amended by Amendments and Additions No. 2 approved by Resolution of the Chief State Sanitary Inspector of the RF dated								
		ved by Resolution of						
State Sanitary	inspector of the	RF dated 16.07.2008	NO. 43)					

Index, products group		in whi	t weight ch the in not allo	dicator	Mould, CFU/g, not more	Notes
	CFU/g,	Colifo rm bacter ia (colif	S. aureus	Pathoge nic, includin g salmonel la	than	
3.6.8.1. Top- grade butter	1 x 1E4	0.1	1.0	25 <*>	100	<pre>&lt;*&gt; additionall y L. monocytogen es</pre>
3.6.8.2. Rendered poultry fat	1 x 1E2	1.0	1.0	25	-	

Index, products	Indicators	Permissible levels,	Notes
group		mg/kg, not more	
		than	
1	2	3	4
3.6.9.	Toxic elements:		
Sugar sand			
	lead	0.5	
	arsenic	1.0	
	cadmium	0.05	
	mercury	0.01	
	Pesticides:	not allowed	< 0.005
	Hexachlorocycloh		
	exane (alpha-,		
	beta-, gamma -		
	isomers)		
	DDT and its metabolites	not allowed	< 0.005

(as amended by Amendments and Additions No. 2 approved by Resolution of the Chief State Sanitary Inspector of the RF dated 15.04.2003 No. 41, No. 22, approved by Resolution of the Chief State Sanitary Inspector of the RF dated 27.12.2010 No. 177)

Index, products	QMAFAnM,	Produc	t weight (cr	m³, g),	Mould,	Yeast,
group	CFU/g,	in whi	ch the inc	dicator	CFU/g,	CFU/g, not
	not more	is not	allowed		not	more than
	than				more	
		Colif	S. aureus	Pathog	than	
		orm		enic,		
		bacte		includ		
		ria		ing		
		(coli		salmon		
		forms		ella		
		)				
		,				
1	2	3	4	5	6	7
3.6.9.1.	1 x 1E3	1.0		25	10	10
Sugar sand,						
refined milk						
sugar						

3.6.9.2. Maize molasses	5 x 1E3	1.0	1.0	100	50	10
3.6.9.3. Malt extract for children food	1 x 1E4	1.0	-	25	50	50
	1 x 1E4	1.0	-	25	50	10
3.6.9.5. Aspartame	2.5 x 1E2	1.0	-	10	-	-
3.6.9.6. Dry maize imported molasses	5 x 1E3	1.0	1.0	100	50	10
3.6.9.7. Powdered low- conversion glucose syrup	1 x 1E4	1.0	1.0	25	100	50
3.6.9.8. Carbohydrate component produced by enzymic cleavage of starch		1.0	_	25	100	50
3.6.9.9. Potato starch of top grade	1 x 1E4	1.0	_	25	50	10
3.6.9.10. Refined milk sugar	1 x 1E3	1.0	_	25	10	10
lactose of spray dehydration	1 x 1E4	1.0	1.0	25	100	50
(as amended by Resolution of t 15.04.2003 No. 4	he Chief	lments State	and Additi Sanitary In			approved he RF da
3.6.9.12. Lactose concentrate	5 x 1E3	1.0	-	50	100	50

Index, products group  3.6.10. Other components	Indicat		Permissible mg/kg, nthan	ot m	ls, No	otes
			al indicator	-	1	
products group		in whi	t weight (cr .ch the inc allowed	dicator		Yeast, CFU/g, not more than
	than	Colifo	S. aureus	Pathog	more	
		rm		enic,	than	
		bacter		includ		
		ia		ing		
		(colif		salmon		
		orms)		ella		
1	2	3	4	5	6	7
3.6.10.1.	100	1.0	1.0	25	20	not allowed
Vitamin premix						
3.6.10.2.	1 x 1E4	1.0	1.0	25	50	50
Mineral premix						
3.6.10.3.	5 x 1E3	0.1	1.0	25	_	-
Isolated soya						
protein						
3.6.10.4.	1 x 1E4	0.1	-	25	100	100
Pectin						

_____

<*> It is also required to control residual quantities of the pesticides and antibiotics used for production of food raw material (see Clauses 3.12, 3.13, 3.15).

⁽the note was amended by Amendments and Additions No. 22 approved by Resolution of the Chief State Sanitary Inspector of the RF dated 27.12.2010 No. 177)

Annex 4 to SanPiN 2.3.2.1078-01, approved by Resolution No. 36 of the Chief State Sanitary Inspector of the RF dated November 14, 2001

#### FOOD PRODUCTS PRODUCED FROM GENETICALLY MODIFIED SOURCES

Expelled from September 1, 2007. — Amendments No. 5 approved by Resolution No. 42. of the Chief State Sanitary Inspector of the RF dated 25.06.2007

Annex 5a to SanPiN 2.3.2.1078-01, approved by Resolution No. 36 of the Chief State Sanitary Inspector of the RF dated November 14, 2001

BIOLOGICALLY ACTIVE SUBSTANCES, COMPONENTS OF FOOD AND PRODUCTS BEING THEIR SOURCES AND NOT HAVING ADVERSE EFFECTS TO HUMAN HEALTH WHEN USED FOR PRODUCTION OF BIOLOGICALLY ACTIVE ADDITIVES TO FOOD

#### 1. Food substances:

- 1.1. Proteins, protein derivatives (of animal, vegetable, microbial and other origin): protein isolates, protein concentrates, protein hydrolyzates, aminoacids and derivatives thereof.
- 1.2. Fats, lipoids and derivatives thereof:
- 1.2.1. vegetable oils the sources of essential polyunsaturated fatty acids, phytosterols, phospholipids, fatsoluble vitamins;
- 1.2.2. Fats of fish and marine animals the sources of polyunsaturated fatty acids, phospholipids, fat-soluble vitamins;
- 1.2.3. individual polyunsaturated fatty acids, extracted from food sources: linoleic, linolenic, arachidonic, eicosapentaenoic, docosahexaenoic acids etc.;
- 1.2.4. sterines extracted from food raw materials;
- 1.2.5. medium-chain triglycerides;
- 1.2.6. phospholipids and their precursor substances, including lecithin, kephalin, choline, ethanolamine.
- 1.3. Carbohydrates and their derived products:
- 1.3.1. food fibers (cellulose pulp, hemicelluloses, pectin, lignin, gum etc.);
- 1.3.2. polyglycoosamines (chitosan, chondroitin sulfate, glycosaminoglycans, glucosamine etc.);
- 1.3.3. starch and products of its hydrolysis;
- 1.3.4. inulin and other polyfructosans;
- 1.3.5. glucose, fructose, lactose, lactulose, ribose, xylose, arabinose.
- 1.4. Vitamins, pseudo-vitamins and coenzymes: vitamin C (ascorbic acid, its salts and ethers), vitamin  $B_1$  (thiamine), vitamin  $B_2$  (riboflavin, flavin mononucleotide), vitamin  $B_6$  (pyridoxine, pyridoxal, pyridoxamine and their phosphates), vitamin PP (nicotinamide, nicotinic acid, salts of nicotinic acid), folic acid, vitamin  $B_{12}$  (cyanocobalamin, methylcobalamin), pantothenic acid (salts of pantothenic acid), biotin, vitamin A (retinol and its ethers), carotenoids (beta-carotene, lycopin, lutein etc.), vitamin E (tocopherols, tocotrienols and their ethers), vitamin D and its active forms, vitamin K, para-aminobenzoic acid, lipoic acid, orotic acid, inosite, methylmethionine-sulfonium, carnitine, pangamic acid.
- 1.5. Mineral substances (macro- and microelements): calcium, phosphorus, magnesium, potassium, sodium, iron, iodine, zinc, boron, chrome, copper, sulfur, manganese, molybdenum, selenium, silicon, vanadium, fluorine, germanium, cobalt.
- 2. Minor food components:
- 2.1. enzymes (of vegetable origin or obtained by biotechnological methods on the basis of microbial synthesis);
- 2.2. polyphenolic compounds including ones with an expressed antioxidant effect bioflavonoids, anthocyanidins, catechins and others);

- 2.3. natural metabolites: succinic acid, alpha-keto acids, ubiquinone, citric acid, fumaric acid, tartaric acid, ornithine, tsitrulin, creatine, betaine, glutathione, taurine, malic acid, indoles, isothiocyanates, octacosanol, chlorophyll, terpenoids, iridoids, resveratrol, steviosides.
- 3. Probiotics (in monocultures and in associations) and prebiotics:
- 3.1. Bifidobacteria, including the species of nfantis, bifidum, longum, breve, adolescentis; Lactobacillus, including the species of acidophilus, fermentii, casei, plantarum, bulgaricus etc.; Lactococcus; Streptococcus thermophilus; Propionibacterium etc.;
- 3.2. various classes of oligo- and polysaccharides (fructo-oligosaccharides, galacto-oligosaccharides of natural origin, of microbial synthesis, etc.);
- 3.3. biologically active substances immune proteins and enzymes, glycopeptides, lysozyme, lactoferrin, lactoperoxidase, bacteriocins of lactic-acid microorganisms, except for preparations from tissues and fluids of man.
- 4. Plants (food and drug ones), products of the sea, rivers, lakes, reptiles, arthropods, mineral-organic or natural mineral substances (in a dry, powder, tablet, encapsulated form, in the form of aqueous, alcoholic, fat dry and liquid extracts, tinctures, syrups, concentrates, balsams): amberat, Spirulina, Chlorella, inactivated yeast and their hydrolysates, zeolites etc.
- 5. Bee products: royal jelly, propolis, beeswax, pollen, ambrosia.

Annex 5b to SanPiN 2.3.2.1078-01, approved by Resolution No. 36 of Chief State Sanitary Inspector of the RF as of November 14, 2001

#### BIOLOGICALLY ACTIVE SUBSTANCES,

#### FOOD COMPONENTS AND PRODUCTS BEING THEIR SOURCES

# WHICH MIGHT NEGATIVELY AFFECT HUMAN HEALTH WHEN USED FOR PRODUCTION OF BIOLOGICALLY ACTIVE FOOD ADDITIVES

(as amended by Amendments No.1, approved by Resolution No. 27 of Chief State Sanitary Inspector of the RF dated 20.08.2002 Amendments and Additions No. 7, approved by Resolution No. 17 of Chief State Sanitary Inspector of the RF dated 05.03.2008 Amendments and Additions No. 15, approved by Resolution No. 73 of Chief State Sanitary Inspector of the RF dated 08.12.2009 Amendments No.19, approved by Resolution No. 102 of Chief State Sanitary Inspector of the RF dated 10.08.2010 Amendments No.23, approved by Resolution No. 30 of Chief State Sanitary Inspector of the RF dated 11.04.2011

#### 1. Plants Containing Strong, Narcotic, or Toxic Substances:

T	T	T	T
No.	Name of Plants in English	Name of Plants in Latin	Parts of Plants
1	2	3	4
1.	liquorice, Precatory bean, Jequirity)	Abrus precatorius L.	Seeds
2.	of grace)	Gratiola officinalis L.	Aerial part
3.	Climbing fumitory	Adlumia fugosa Greene	All parts
4.	Neem tree (Margosa, Neem)	Azadirachta indica A. Juss.	All parts
5.	Asiasarum heterotropoides	Asiasarum heterotropoides F. Maek.	Roots
6.	Acacia	Acacia L.	All species, aerial part
7.	Aconite (Monkshood)	Aconitum L.	All species, all parts
8.	Toothpickweed (Bisnaga)	Ammi visnaga (L.) Lam. (Visnaga daucoides Gaertn.)	All parts
9.	Devil's tongue	Amorphophallus rivieri Durieu	All parts
10.	Anabasis	Anabasis L.	All species, shoots
11.	Adenanthera	Adenanthera L.	All species, all parts
12.	Anamirta cocculus (Indian cocculus, Cocculus)	Anamirta cocculus (L.) Wight et Arn.	All parts
13.		Anhalonium lewinii Jennings	All parts
14.	Rayless goldenrod	Aplopappus heterophyllus	All parts
15.	Prickly nonny	Argemone L.	All species, all parts
16.	Betel palm (Areca palm, Areca nut, Betel palm)	Areca catechu L.	All parts

17.	Arisarum	Arisarum L.	All species, all
18.	Dutchman's pipe	Aristolochia L.	All species, all
19.	Arnica	Arnica L.	All species, flowers
20.	Arum	Arum L.	All species, all parts
21.	Arthrocnemum glaucum	Arthrocnemum glaucum Delile	Aerial part
22.	Blackheart Sassafras	Atherosperma moschatum Labill.	All parts
23.	Labrador tea (Rosemary)	Ledum L.	All species, aerial part, shoots
24.	Roughbark Lignum-vitae (Guaiacum)	Guaiacum officinale L.	All parts
25.	Bocconia	Bocconia L.	All species, all parts
2.6	Fir clubmoss (Fir moss)	Huperzia selago L.	All parts
		Berberis L.	_
27.	Barberry	Berberis L.	All species, roots, bark
28.	Periwinkle (Madagascar Periwinkl)	Vinca L.	All species, all parts
29.	Slipper orchid	Cypripedium sp.	All species, all parts
30.	Colchicum	Colchicum sp.	All species, all parts
31.	Beilschmiedia Nees	Beilschmiedia Nees	All parts
32.		Hyoscyamus sp.	All species, all parts
33.	Grass of Parnassus (Marsh Grass-of-Parnassus, Northern Grass-of- Parnassus)	Parnassia palustris L.	All parts
34.		Leucojum aestivum L.	All parts
		Euonymus europaea L.	Seeds
36.		Biota orientalis L.	All parts
		Ligustrum vulgare L.	_
	-		Leaves, fruits
	Blepharis edulis Fleabane	Blepharis edulis Pers. Pulicaria uliginosa Stev.	All parts All parts
40.	Golden chain (Golden shower)	ex DC.  Laburnum anagyroides (= Cytisus laburnum L.)	All parts
41.	Hemlock	Conium L.	All species, all parts
	Boronia	Boronia Sm.	Essential oils
42.			from leaves and shoots of all
			species
		Brucea javanica Merr.	All parts
44.	Dwarf elder	Sambucus edulus L.	- " -
45.	Summer ragwort	Ligularia dentata Hara	All parts
46.	Burasaia madagascariensis	Burasaia madagascariensis DS	All parts
47.	Meadow rue	Thalictrum L.	All species, aerial part
48	Vexibia pachycarpa	Vexibia pachycarpa Yakovl	All parts
	Camelthorn	Alhagi pseudalhagi Fisch.	Shoots
50.	Anemone	Anemone L.	All species, all

			parts
51.	Cowbane (Cicuta)	Cicuta L.	All species, all parts
52.	Indian ginseng	Withania somnifera (L.) Dunal	All parts
53.	Voacanga africana	Voacanga africana	All parts
54.	Columbine	Aquilegia L.	All species, roots
55.	Common bugloss	Anchusa officinalis L.	All parts
56.	Daphne	Daphne sp.	All species, all parts
57.	Baneberry	Actaea L.	All species, all parts
58.	Paris herb	Paris L.	All species, all parts
59.	Crown vetch, Coronilla (Crown vetch)	Coronilla L.	All species, roots, seeds
60.	Peganum (Syrian Rue)	Peganum L.	All species, aerial part
61.	Gelsemium	Gelsemium L.	All species, all parts
62.	Hydnocarpus (Chaulmoogra)	Hydnocarpus Gaertn.	All species, seeds
63.	Hydrastis (Orangeroot, Goldenseal)	Hydrastis L.	All species, all parts
64.	Hemlock parsley	Conioselinum jeholense M.Pimem	All parts
65.	Glaucium (Horned Poppy)	Glaucium L.	All species, aerial part
66.	Honey locust (Three- thorned acacia)	Gleditsia triacanthos L.	All parts
67.	Gomphocarpus (Swan Plant)	Gomphocarpus L.	All species, all parts
68.	Spring pheasant's eye (Adonis)	Adinis L.	All species, aerial part
69.	Common vetch (Narrow-leaved vetch)	Vicia Angustifolia, V. sativa	All parts
70.	Wild mustard	Sinapis arvensis L.	All parts of the plant in the fruiting season
71.	Chinese bellflower (Sida)	Cida L.	All species, all parts
72.	Northern firmoss	Huperzia selago Bernh. ex Schrank et Mart. (Lycopodium selago L.)	All parts
73.	Water willow	Decodon verticillatus Ell.	Aerial part
74.	Delphinium (Larkspur)	Delphinium L.	All species, all parts
75.	Dehaasia squarrosa	Dehaasia squarrosa Hassk.	All parts
76.	Jeffersonia dubia	Jeffersonia dubia Benth. et Hook. F. ex Baker et Moore	All parts
77.	Jute	Corchorus L.	All species, seeds
78.	Dioscorea hispida	Dioscorea hispida Dennst.	All parts
79.	Common melilot	Melilotus oficinalis.	All parts
80.	Doryphora sassafras	Doryphora sassafras Endl.	Essential oils from all parts
81.	Dyer's greenweed	Genista tinctoria L.	All parts
82.	Stramony	Datura L.	All species, all parts
02.		Xanthium L.	All species, all

	Sage, Spiny cocklebur)		narte
	Fumitory	Fumaria L.	parts All species, all
84.	T unit cor y	I amarra II.	parts
	Duboisia	Duboisia L.	All species, all
85.			parts
	Wallflowers	Erysimum L.	All species, all
86.			parts
87.	Lonicera chamisso	Lonicera. chamissoi	All parts
88.	Lonicera tatarica	Lonicera. tatarica	Fruits
89.	Lonicera xylosteum	Lonicera xylosteum	Fruits
90.	Zigadenus sibiricus	Zigadenus sibiricus (L.)	All parts
90.		A.Gray	
	Bitter candytuft	Iberis amara L.	All parts
92.	Ignatia amara	Ignatia amara L.	All parts
93.	Ipecacuanha	Cephaelis L.	All species, all
			parts
	Beach Moonflower	Ipomea violacea	Seeds
	Cabi paraensis	Cabi paraensis Ducke	All parts
	Peyote San Pedro Cactus	Lophophora williamsii Echinopsis pachanoi	Aerial part Aerial part
97.	Caladium	Caladium L.	-
	Caracrani	Caracram II.	All species, all parts, apart from
98.			edible Caladium
			- C.esculentum
			(rootstock)
99.	Silver maple	Acer saccharium	Leaves
	Calea zacatechichi	Calea zacatechichi	Aerial part
1.01	Caltha	Caltha sp.	All species,
101.			aerial part
102.	Cananga odorata (Ylang-	Cananga odorata Hook. f.	All parts
102.	ylang)	et Thoms.	
103.	Hoary pepperwort	Cardaria draba (L.) Desv.	All parts
	Kat (cat, khat,	Catha edulis Forsk.	Aerial part
104.	,		
	tea)		
105	Baby's-breath	Gypsophila L.	All species, all
105.	(Gypsophila,		parts
106	Tumbleweed) Soapbark tree soap	Outiliate and walter	All parts
100.	Kendyr	Quillaja saponaria Molina Apocynum L.	
107.	Reliayi	Apocynum II.	All species, all parts
108.	Common wood sorrel	Oxalis acetosella L.	_ " _
	Castor bean	Ricinus communis L.	All parts
	Clasping pepperweed	Lepidium perfoliatum L.	All parts
111.		Atragene sibirica L.	All parts
112.	Coca bush (Coca)	Erythroxylum coca Lam.	All species, all
112.			parts
113.	2 ( - 5 1 2)	Aethusa Cynapium L.	All parts
114.	Collinsonia anisata	Collinsonia anisata Sims.	Aerial part
115.	Elephant-ear	Colocasia L.	All species, all
110.			parts
116.	Cannabis	Cannabis sp.	All species, all
<u> </u>			parts
117.	Forking Larkspur	Consolida regalis S.F.	Fruits, seeds
	0 1 1 1 1 1	Gray	7.1.1
118.	Coptis (Goldthread,	Coptis L.	All species, all
-	Picrorhiza kurroa) Wild ginger	Asarum L.	parts
	MATTA GILIGET	ASALUM II.	All species, all
119.			parts, essential oils from roots
			and rootstock
	Coriaria	Coriaria	All species,
120.			aerial part
	1		ucriur parc

	T		1
121.	Karaka	Corynocarpus Laevigata	Core,
		Forst.	fruit
122.	Cornulaca leucantha	Cornulaca leucantha Charif et Allen	Aerial part
100	Coscinium	Coscinium fenestratum	All parts
123.	fenestratum	Colebr.	
	Belladonna	Atropa belladonna L.	All parts
105	Groundsel	Senecio L.	All species,
125.			aerial part
126.	Crossopteryx kotschyana( Thymus kotschyanus)	Crossopteryx kotschyana Fenzl.	Bark
127.	Crotalaria	Crotalaria L.	All species, all parts
128	Purging croton	Croton tiglium L.	All parts
		Cyclospermum leptophyllum	Fruits
	Marsh parsley	Sprague	
	Yellowroot	Xanthorhiza simplicissima Marsh. (Zanthorhiza)	All parts
131.	Water-lily	Nuphar L.	All species, all parts
132.	Common corncockle	Agrostemma githago L.	All parts
133.	Solomon's seal	Polygonatum L.	All species, all parts
134	Burr chervil	Anthriscus caucalis Bieb.	All parts
	Sassafras	Sassafras officinale	All parts
136.	Pokeweed (American pokeweed)	Phytolacca L.	All species, all parts
137.	Lily-of-the-valley	Convallaria L.	All species, all parts
138.	Vincetoxicum	Vincetoxicum sp.	All species, all parts
139.	Latua venenosa	Latua venenosa Phil.	All parts
	Caucasian lily	Lilium monadelphum Bieb.	All parts
	Lindera oldhamii	Lindera oldhamii Hemsl.	Stem, leaves
142.	Lobelia	Lobelia L.	All species, all parts
143.	Virgin's-bower (Clematis)	Clematis sp.	All species, all parts
144.		Nymphaea Caerulea	Leaves, petals
145.	Lophophora (Peyote)	Lophophora L.	All species, all parts
146	Menispermum dauricum	Menispermum dauricum L.	All parts
	Common toadflax	Linaria vulgaris Mill.	All parts
148.	Buttercups	Ranunculus L.	All species,
149.	Magnolia	Magnolia L.	aerial part All species, all
150.	Mahonia (Oregon	Mahonia Nutt.	parts All species, all
100.	graperoot)		parts
151.	Poppy (Armenian, Bracteatum, Long-headed,	Papaver L.(P. Armenacum, P. Bracteatum, P. Dubium, P. Nudicaule, P.	All parts, apart from seeds
	Icelandic, Opium)	somniferum)	
152.	Macleaya	Macleaya	All species, aerial part
153.	Macrozamia spiralis	Macrozamia spiralis Miq.	All parts
154.		Mandragora officinarum L.	All parts
	Goosefoot	Chenopodium L.	All species, All parts,
155.			essential oils
			from all parts,

			oil from seeds
	Cowwheat	Melampyrum sp.	All species, all
156.	oowniede	nerampyram op.	parts
	Chamaecytisus ruthenicus	Chamaecytisus	All parts
157.	(Broom)	ruthenicus,	
		Ch. borysthenicus	
158.	Chinaberry	Melia azedarach L.	All parts
159.	Myricaria	Myricaria L.	All species, all
159.			parts
	Mitragyna	Mitragyna L.	All species, all
160.			parts
161.	Savin juniper	Janiperus sabina L.	All parts
	Spurge	Euphorbia sp.	All species, all
162.	1 - 3 -		parts
	Globe thistle	Echinops L.	All species,
163.	01020 0112010	Zeninopo I.	fruits
	Hellebore	Helleborus L.	All species, all
164.	nellebole	nellebolus L.	_
	M-1		parts
165.	Male fern	Dryopteris filix mas	Rootstock
		Schott.	
166.	Nutmeg	Myristica fragrans Hjuft	Fruit (nut)
	Common	Saponaria officinalis L.	All parts
167.	Soapwort (Bouncing Bet,		
	Soaproot)		
168.	Lousewort	Pedicularis sp.	All species, all
T 00.			parts
	Nandina	Nandina domestica Thunb.	Bark,
169.			root
			bark
1.50	Foxglove	Digitalis sp.	All species, all
170.			parts
171.	Beak-leaved nauclea	Nauclea rhynchophylla Miq.	All parts
	Nectandra puchury-major	Nectandra puchury-major	Fruits
172.	Listanaza paonary major	Nees et Mart.	·
173	Nemuaron humboldtii	Nemuaron humboldtii Bail.	Essential oil
	Figwort	Scrophularia sp.	All species, all
174.		Coropharatia op.	parts
175	Periploca	Periploca L.	-
	Odostemon aquifolium	_	All species, bark Roots
т/ю.		Odostemon aquifolium Rydb.	I .
177.	Comfrey	Symphytum L.	All species,
	Oleander	Norium I	roots
178.	Oleander	Nerium L.	All species, all
			parts
179.	Water dropwort	Oenanthe sp.	All species, all
- 1			parts
	Mistletoe (Dwarf	Viscum L.	All species, all
180.	<i>1</i>		parts
	mistletoe)		
	Orixa japonica	Orixa japonica Thunb.	All parts
182.	Short-stemmed sedge	Carex brevicollis DC.	Aerial part
183.	Locoweed	Oxytropis L.	All species, all
102.			parts
184.		•	+
	Ocimum sanctum	Ocimum sanctum L.	All parts
1 0 -		Ocimum sanctum L. Sedum L.	All parts All species, all
185.	Crassula (Rupturewort,		All species, all
	Crassula (Rupturewort, Stonecrop)	Sedum L.	All species, all parts
186.	Crassula (Rupturewort, Stonecrop) Scarlet pimpernel	Sedum L. Anagallis arvensis L.	All species, all parts All parts
	Crassula (Rupturewort, Stonecrop)	Sedum L.	All species, all parts All parts All species, all
186.	Crassula (Rupturewort, Stonecrop) Scarlet pimpernel Bean caper	Sedum L. Anagallis arvensis L. Zygophyllum L.	All species, all parts All parts All species, all parts
186.	Crassula (Rupturewort, Stonecrop) Scarlet pimpernel	Sedum L. Anagallis arvensis L.	All species, all parts All parts All species, all parts All species, all
186. 187.	Crassula (Rupturewort, Stonecrop) Scarlet pimpernel Bean caper	Sedum L.  Anagallis arvensis L.  Zygophyllum L.  Solatium sp.	All species, all parts All parts All species, all parts All species, all parts
186. 187.	Crassula (Rupturewort, Stonecrop) Scarlet pimpernel Bean caper	Sedum L. Anagallis arvensis L. Zygophyllum L.	All species, all parts All parts All species, all parts All species, all

Bryony Bryonia L. All specie roots  191. Piper betel Piper betle L. All parts  192. Kava (Kava-kava) Piper methysticum (kava-kava)  193. Prammogeton canescens Prammogeton canescens Fruits  194. Petalostylis Petalostylis labicheoides R. Br.  195. Petrosimonia monandra Petrosimonia monandra Aerial par Bunge  196. Hepatica Anemone sp. All specie parts  197. Hemp nettle Galeopsis sp. All specie parts  198. Ternate pinellia Pinellia ternata Stem Britenbach  199. Paeonia anomalae Paeonia anomalae L. All parts  200. Piptadenia peregrina Piptadenia peregrina Bark  201. Florida fishpoison tree Piscidia erythrina L. All parts  202. Poison darnel Lolium temulentum L. Fruits  203. Dodder Cuscuta L. All specie parts  204. Rattlebox Rhinanthus L. All specie parts  205. May apple Podophyllum L. All specie and rootst Lozinsk.  Wormwood Artemisia taurica Willd. Aerial part, essential	es, all es, all es, all
191. Piper betel Piper betle L. All parts 192. Kava (Kava-kava) Piper methysticum (kava-kava)  193. Prammogeton canescens Prammogeton canescens Fruits 194. Petalostylis Petalostylis labicheoides Aerial par R. Br. 195. Petrosimonia monandra Petrosimonia monandra Bunge 196. Hepatica Anemone sp. All specie parts 197. Hemp nettle Galeopsis sp. All specie parts 198. Ternate pinellia Pinellia ternata Britenbach 199. Paeonia anomalae Paeonia anomalae L. All parts 200. Piptadenia peregrina Piptadenia peregrina Bark 201. Florida fishpoison tree Piscidia erythrina L. All parts 202. Poison darnel Lolium temulentum L. Fruits 203. Dodder Cuscuta L. All specie parts 204. Rattlebox Rhinanthus L. All specie parts 205. May apple Podophyllum L. All specie and rootst 206. Voronov's snowdrop Galanthus woronowii All parts Lozinsk. Wormwood Artemisia taurica Willd. Aerial	es, all es, all es, all
192. Kava (Kava-kava)  193. Prammogeton canescens Vatke  194. Petalostylis 1abicheoides 195. Petrosimonia monandra 196. Hepatica 197. Hemp nettle 198. Ternate pinellia 199. Paeonia anomalae 199. Paeonia anomalae 199. Piptadenia peregrina 199. Piptadenia peregrina 199. Poison darnel 201. Florida fishpoison tree 202. Poison darnel 203. May apple 206. Voronov's snowdrop 206. Voronov's snowdrop 207. Vatke 208. Prammogeton canescens Prammogeton canescens Pruits Pruits Petalostylis labicheoides Aerial par R. Br. Petrosimonia monandra Petrosimonia monandra Aerial par R. Br. Piptadenia peregria parts All specie parts Piptadenia peregrina Bark Benth. Piptadenia peregrina Bark Benth. Cuscuta L. All parts Pruits Pruits Pruits Pruits Podophyllum L. All specie parts All specie parts All specie parts All specie parts All specie parts All specie parts All specie parts All specie parts All specie parts All specie parts All specie parts All specie parts All specie parts All specie parts All specie parts All specie parts All specie parts All specie parts All specie parts All specie parts All specie parts All specie parts All specie parts All specie parts All specie parts All specie parts All specie parts All specie parts All specie parts All specie parts All specie parts All specie parts All specie parts All specie parts All specie parts All specie parts All specie parts All specie parts All specie parts All specie parts All specie parts All specie parts All specie parts All specie parts All specie parts All specie parts All specie parts All specie parts All specie parts All specie parts All specie parts All specie parts All specie parts All specie parts All specie parts All specie parts All specie parts All specie parts All specie parts All specie parts All specie parts All specie parts All specie parts All specie parts All specie parts All specie parts All specie parts All specie parts All specie parts All specie parts All specie parts All specie parts All specie parts All specie parts All specie parts All specie parts All spe	es, all es, all es, all
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Petalostylis labicheoides Re Br.  195. Petrosimonia monandra Petrosimonia monandra Bunge  196. Hepatica Anemone sp. All specie parts  197. Hemp nettle Galeopsis sp. All specie parts  198. Ternate pinellia Pinellia ternata Britenbach  199. Paeonia anomalae Paeonia anomalae L. All parts  200. Piptadenia peregrina Piptadenia peregrina Benth.  201. Florida fishpoison tree Piscidia erythrina L. All parts  202. Poison darnel Lolium temulentum L. Fruits  203. May apple Podophyllum L. All specie parts  206. Voronov's snowdrop Galanthus woronowii Lozinsk.  Wormwood Artemisia taurica Willd. Aerial part,	es, all es, all es, all
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Bunge  196. Hepatica  Anemone sp.  All specie parts  197. Hemp nettle  198. Ternate pinellia  199. Paeonia anomalae  Piptadenia peregrina  Piptadenia peregrina  Piptadenia peregrina  Benth.  201. Florida fishpoison tree  202. Poison darnel  203. Dodder  Cuscuta L.  Rattlebox  Rhinanthus L.  All specie parts  All parts  All parts  Pruits  All specie parts  Cuscuta L.  All specie parts  All specie parts  Cuscuta L.  All specie parts  All specie parts  All specie parts  Cuscuta L.  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts	es, all es, all es, all
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199. Paeonia anomalae  200. Piptadenia peregrina  Piptadenia peregrina  Benth.  201. Florida fishpoison tree  Piscidia erythrina L.  202. Poison darnel  Lolium temulentum L.  Fruits  Cuscuta L.  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  204. Rattlebox  Rhinanthus L.  All specie parts  Podophyllum L.  All specie and rootst  All specie and rootst  Lozinsk.  Wormwood  Artemisia taurica Willd. Aerial part,	es, all
200. Piptadenia peregrina Piptadenia peregrina Bark  201. Florida fishpoison tree Piscidia erythrina L. All parts  202. Poison darnel Lolium temulentum L. Fruits  203. Dodder Cuscuta L. All specie parts  204. Rattlebox Rhinanthus L. All specie parts  205. May apple Podophyllum L. All specie and rootst  206. Voronov's snowdrop Galanthus woronowii Lozinsk.  Wormwood Artemisia taurica Willd. Aerial part,	es, all
Benth.  201. Florida fishpoison tree Piscidia erythrina L. All parts 202. Poison darnel Lolium temulentum L. Fruits  203. Dodder Cuscuta L. All specie parts  204. Rattlebox Rhinanthus L. All specie parts  205. May apple Podophyllum L. All specie and rootst  206. Voronov's snowdrop Galanthus woronowii Lozinsk.  Wormwood Artemisia taurica Willd. Aerial part,	es, all
202. Poison darnel  203. Dodder  Cuscuta L.  Rattlebox  Rhinanthus L.  Podophyllum L.  All specie parts  Podophyllum L.  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts	es, all
203. Dodder  Cuscuta L.  Rattlebox  Rhinanthus L.  Podophyllum L.  All specie parts  Podophyllum L.  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  All specie parts  Lozinsk.  Wormwood  Artemisia taurica Willd. Aerial part,	es, all
203. Rattlebox Rhinanthus L. All specie parts  204. May apple Podophyllum L. All specie and rootst  206. Voronov's snowdrop Galanthus woronowii Lozinsk.  Wormwood Artemisia taurica Willd. Aerial part,	es, all
204.  205. May apple  Podophyllum L.  Podophyllum L.  All specie and rootst  Color Lozinsk.  Wormwood  Artemisia taurica Willd.  Aerial part,	
206. Voronov's snowdrop  Galanthus woronowii  Lozinsk.  Wormwood  Artemisia taurica Willd. Aerial part,	
Lozinsk.  Wormwood Artemisia taurica Willd. Aerial part,	
part,	
from all parts	oils
Levant wormseed Artemisia cina Berg. Ex Aerial par Poljak. Poljak. essential from all p	oils
Mercurialis L. All specie parts	
Pasque flower Pulsatilla sp. All specie parts	s, all
Psilocaulon absimile Psilocaulon absimile Aerial par	:t
Physochlaina Physochlaina L. All specie parts	s, all
213. Corn smut Ustilago maydis DC. All parts	
214. Floating bladderwort Utricularia physalis Aerial par	
215. Ramona stachyoides Ramona stachyoides Briq. All parts	
216. Rauvolfia heterophylla Roem. et Schult.	
217. Roemeria refracta Roemeria refracta DC. All parts	
Bur buttercup Ceratocephala I. All specie	
parts	
219. Rhododendron Rhododendron sp. All specie parts	s, all
220. Hawaiian Baby Woodrose Argyreia nervosa; All parts Hawaiian Baby Woodrose	
Ruta L. All specie parts	s, all
222. Fishberry Ref. Anamirta cocculus -	
223. Fritillaria ussuriensis Fritillaria ussuriensis All parts Maxim.	

224	False sago palm	Cycas circinalis L.	Seeds
	Fern palm	Cycas revoluta Thunb.	Seeds
220.	Saksaul	Haloxylon L.	All species,
226.			leaves,
			stem
227.	Bloodwort	Sanguinaria canadensis L.	Roots
	Sarcolobus	Sarcolobus R. Br.	All species, all
228.			parts
	Sarcocephalus	Sarcocephalus Afzel.	All species, all
229.			parts
	Haloxylon articulatum	Haloxylon articulatum	Leaves, stems
230.	1	Bunge	
	Sassafras		All parts,
0.01		Nees.	essential oils
231.			from roots and
			wood
232.	Suaeda physophora	Suaeda physophora L.	All parts
233.	Leadwort	Plumbago europaea L.	All parts
234.	Seidlitzia rosmarinus	Seidlitzia rosmarinus	Leaves, stem
∠34.		Bunge	
235.	Securinega	Securinega L.	All species,
∠35.			shoots
236.	Siegesbeckia orientalis	Siegesbeckia orientalis L.	All parts
	Simmondsia	Simmondsia californica	Seeds
237.	californica	Nutt.	
	(Jojoba)		
238.	Blueweed	Echium vulgaris L.	All parts
239.	Sceletium tortuosum	Sceletium tortuosum	All parts
240.	Scopolia	Scopolia L.	All species, all
			parts
241.		3 3	All parts
242.	1 3	Salicornia fruticosa L.	Leaves, stem
243.	Spineless saltwort		All parts
	(Russian thistle)	= S. ruthenica lljin)	
244.	Aleppo sorgho (Aleppo	Sorghum halepense (L.)	All parts
	grass, Johnson grass)	Pers.	
245.	Ergot (ergot fungi)	Claviceps sp.	All species, all
0.4.6			parts
246.		Stellera chamaejasme L.	All parts
247.	Stephania	Stephania L.	All species,
	C+	0+	tubers and roots Seeds
248.	Strictocardia tiliaefolia	Strictocardia tiliaefolia	seeus
249.	Strophanthus kombe	Hall. Strophanthus kombe Oliv.	All parts
	Sphaerophysa salsula	Sphaerophysa salsula	All parts
250.	opinaciophysa saisuia	(Pall.) DC.	rill Parco
	Tobacco	Nicotiana L.	All species, all
251.			parts
252.	Tabernanthe iboga	Tabernanthe iboga Baill	All parts
	Black bryony (Lady's	Tamus communis L.	All parts
253.	seal)		
0.5.	Tauschia	Tauschia Schltdl.	All species, all
254.			parts
	Thermopsis alpina (	Thermopsis alpine L.	Aerial part
	Thermopsis, Heath		
	stitchwort)		
	Guduchi	Tinospora cordifolia Miers	All parts
	Yew	Taxus L.	All species, all
257.			parts
258.	Orange climber	Toddalia asiatica Lam.	All parts
	Toxicodendron	Toxicodendron L. (= Rhus	All species, all
259.		toxicodendron var. hispida	_
		Engl.)	
_			

			T
260.	Turbina corymbosa	Turbina corymbosa	Seeds
261.	(Ololiuqui, Ololiuhqui) Turbina corymbosa	Turbina corymbosa Raf.	Seeds
201.	Cockle	Viccaria sp.	All species, all
262.		-	parts
263.	Ungernia victoris	Ungernia victoris Vved. ex Artjushenko	
264.	Ungernia Sewertzowii	Ungernia. Sewertzowii (Regel) B.Fedtsch.	All parts
265.	Unona odoratissima	Unona odoratissima Blanco	Flowers
266.	Fibraurea tinctoria	Fibraurea tinctoria Lour.	All parts
267.	Physochlaina alica	Physochlaina alaica Korotk.	Roots
268.	Physochlaina orientalis	Physochlaina orientalis G. Don f.	Roots
269.	Willow-leaf Heimia	Heimia salicifolia	Aerial part
270.	Cinchona	Cinchona succirubra Pavon.	Bark
271.		Moringa oleifera Lam.	All parts
272.	Corydalis	Corydalis sp.	All species, all parts
273.	Hunnemannia fumariaefolia	Hunnemannia fumariaefolia Sweet	All parts
274.	Cephalanthus occidentalis	Cephalanthus occidentalis L.	Aerial part
275.	Cyclamen adsharicum	Cyclamen adsharicum Pobed.	All parts
276.	Cyclamen europaeum	Cyclamen europaeum L.	All parts
277.	Citronella Grass	Cymbopogon winterianus Jowitt.	Essential oils from all parts
278.	Sandfly Zieria	Zieria smithii Andr.	Aerial part, essential oils from all parts
279.	Hellebore	Veratrum sp.	All species, all parts
280.	Common houndsberry (Gypsy-flower)	Cynoglossum officinalis L.	All parts
281.	Strychnine tree (Poison nut)	Strychnos L.	All species, seeds
282.	Vetchling	Lathyrus sp.	All species, all parts
283.	Marsh woundwort	Stachys palustris L.	All parts
284.	Rough hedge woundwort	Stachys aspera Michx.	Aerial part
285.	Celandine	Chelidonium L.	All species, aerial part
286.	Fig-root buttercup (Buttercup ficaria)	Ficaria calthifolia Reichenb., F. verna Huds.	All parts
287.	Diviner's Sage	Salvia divinorum	Leaves
200	Schanginia baccata	Schanginia bassata Mas	Toomoo cho-+-
	Evodia meliefolia	Schanginia baccata Moq. Evodia meliefolia Benth.	Leaves, shoots All parts
	Evodia merrerorra Evodia simplex	Evodia simplex Cordem.	All parts
2,70.	Encephalartos barkeri	Encephalartos barkeri	All parts
291.		Carruth. et Miq.	_
292.	Echinopsis	Echinopsis	All species, aerial part
	ief State Sanitary Inspect	dments No.19, approved by Retor of the RF dated 10.08.20	)10
293.	Ephedra	Ephedra sp.	All species, all parts
294.	Burnut	Tribulus L.	All species, all parts
295.	Vera Cruz Jalap	Ipomoea purga (Wend.) Hayne	All parts
	•	•	

	a palmata	Jateorhiza palmata (Lam.)	All parts
296. (Columba)		Miers. (Jatrorrhiza	
		columba (Roxb.) Miers.)	
297. Ailanthus			Aerial part
		Amendments No. 19, approved	
		spector of the RF dated 10.0	
298. Devil tree		Alstonia venenata R.Br.	Bark
		Amendments No. 19, approved	
299. Giant reed		spector of the RF dated 10.0 Arundo donax L.	Flowers
		Amendments No. 19, approved	
	_	spector of the RF dated 10.0	<del>-</del>
300. Aphanamixi		Aphanamixis grandiflora	Seeds
grandiflor	ra	Blume	
		Amendments No. 19, approved	
		spector of the RF dated 10.0	
301. Honeycomb-		Balduina angustifolia	Aerial part
		Amendments No. 19, approved	
Wild croto		spector of the RF dated 10.0 Baliospermum Montana	Root, rootstock
302. WITH CIOCO	**	Muell. Arg	1.00c, 100cscock
Clause 302 was	introduced by A	Amendments No. 19, approved	by Resolution No
	_	spector of the RF dated 10.0	<del>-</del>
303. Banisterio	opsis	Banisteriopsis	All species, all
			parts
	_	Amendments No. 19, approved	_
		spector of the RF dated 10.0	
304. Velvet bea		±	Seeds
		Amendments No. 19, approved spector of the RF dated 10.0	
Baileva mi	ultiradiata	Baileya multiradiata Harv.	
305. Dalleya	21011441404	et Gray	ricitat parc
Clause 305 was	introduced by A	Amendments No. 19, approved	by Resolution No
		spector of the RF dated 10.0	
306 Virola		Virola	All species,
306.			All species, aerial part
306. Clause 306 was		Amendments No. 19, approved	All species, aerial part by Resolution No
306. Clause 306 was 02 of Chief Sta	ate Sanitary Ins	Amendments No. 19, approved spector of the RF dated 10.0	All species, aerial part by Resolution No 08.2010)
Clause 306 was 02 of Chief Sta 307. Indian bla	ate Sanitary Ins anket	Amendments No. 19, approved spector of the RF dated 10.0 Gaillardia pulchella Foug.	All species, aerial part by Resolution No 08.2010) Leaves, flowers
Clause 306 was 02 of Chief Sta 307. Indian bla Clause 307 was	ate Sanitary Ins anket introduced by A	Amendments No. 19, approved spector of the RF dated 10.0 Gaillardia pulchella Foug. Amendments No. 19, approved	All species, aerial part by Resolution No 08.2010) Leaves, flowers by Resolution No
Clause 306 was 02 of Chief Sta 307. Indian bla Clause 307 was 02 of Chief Sta British in	ate Sanitary Ins anket introduced by <i>F</i> ate Sanitary Ins	Amendments No. 19, approved spector of the RF dated 10.0 Gaillardia pulchella Foug. Amendments No. 19, approved spector of the RF dated 10.0	All species, aerial part by Resolution No 08.2010) Leaves, flowers by Resolution No 08.2010)
Clause 306 was 02 of Chief Sta 307. Indian bla Clause 307 was	ate Sanitary Ins anket introduced by <i>F</i> ate Sanitary Ins	Amendments No. 19, approved spector of the RF dated 10.0 Gaillardia pulchella Foug. Amendments No. 19, approved	All species, aerial part by Resolution No 08.2010) Leaves, flowers by Resolution No 08.2010) Flowers,
Clause 306 was 02 of Chief Sta 307. Indian bla Clause 307 was 02 of Chief Sta 308. British in	ate Sanitary Ins anket introduced by F ate Sanitary Ins nula	Amendments No. 19, approved spector of the RF dated 10.0 Gaillardia pulchella Foug. Amendments No. 19, approved spector of the RF dated 10.0 Inula Britannica L.	All species, aerial part by Resolution No 08.2010) Leaves, flowers by Resolution No 08.2010) Flowers, aerial part
Clause 306 was 02 of Chief Sta 307. Indian bla Clause 307 was 02 of Chief Sta 308. British in Clause 308 was	ate Sanitary Instanket introduced by Fate Sanitary Installa introduced by Fate Installa	Amendments No. 19, approved spector of the RF dated 10.0 Gaillardia pulchella Foug. Amendments No. 19, approved spector of the RF dated 10.0	All species, aerial part by Resolution No 08.2010) Leaves, flowers by Resolution No 08.2010) Flowers, aerial part by Resolution No
Clause 306 was 02 of Chief Sta 307. Indian bla Clause 307 was 02 of Chief Sta 308. British in Clause 308 was 02 of Chief Sta 02 of Chief Sta	ate Sanitary Instanket introduced by Fate Sanitary Installa introduced by Fate Sanitary Installa	Amendments No. 19, approved spector of the RF dated 10.0 Gaillardia pulchella Foug. Amendments No. 19, approved spector of the RF dated 10.0 Inula Britannica L.  Amendments No. 19, approved	All species, aerial part by Resolution No 08.2010) Leaves, flowers by Resolution No 08.2010) Flowers, aerial part by Resolution No
Clause 306 was 02 of Chief Sta 307. Indian bla Clause 307 was 02 of Chief Sta 308. British in Clause 308 was 02 of Chief Sta 309. Inula ocu Clause 309 was	ate Sanitary Instance anket introduced by Fate Sanitary Instance introduced by Fate Sanitary Instance ate Sanitary Instance introduced by Fate Sanitary Instanc	Amendments No. 19, approved spector of the RF dated 10.0 Gaillardia pulchella Foug. Amendments No. 19, approved spector of the RF dated 10.0 Inula Britannica L.  Amendments No. 19, approved spector of the RF dated 10.0 Inula oculus-christi L.  Amendments No. 19, approved Inula oculus-christi L.	All species, aerial part by Resolution No 08.2010) Leaves, flowers by Resolution No 08.2010) Flowers, aerial part by Resolution No 08.2010) Aerial part by Resolution No
Clause 306 was 02 of Chief Sta 307. Indian bla Clause 307 was 02 of Chief Sta 308. British in Clause 308 was 02 of Chief Sta 309. Inula ocu Clause 309 was	ate Sanitary Instance anket introduced by Fate Sanitary Instance introduced by Fate Sanitary Instance ate Sanitary Instance introduced by Fate Sanitary Instanc	Amendments No. 19, approved spector of the RF dated 10.0 Gaillardia pulchella Foug. Amendments No. 19, approved spector of the RF dated 10.0 Inula Britannica L.  Amendments No. 19, approved spector of the RF dated 10.0 Inula oculus-christi L.  Amendments No. 19, approved spector of the RF dated 10.0 Emendments No. 19, approved spector of the RF dated 10.0 Emendments No. 19, approved spector of the RF dated 10.0 Emendments No. 19, approved spector of the RF dated 10.0 Emendments No. 19, approved spector of the RF dated 10.0 Emendments No. 19, approved spector of the RF dated 10.0 Emendments No. 19, approved spector of the RF dated 10.0 Emendments No. 19, approved spector of the RF dated 10.0 Emendments No. 19, approved spector of the RF dated 10.0 Emendments No. 19, approved spector of the RF dated 10.0 Emendments No. 19, approved spector of the RF dated 10.0 Emendments No. 19, approved spector of the RF dated 10.0 Emendments No. 19, approved spector of the RF dated 10.0 Emendments No. 19, approved spector of the RF dated 10.0 Emendments No. 19, approved spector of the RF dated 10.0 Emendments No. 19, approved spector of the RF dated 10.0 Emendments No. 19, approved spector of the RF dated 10.0 Emendments No. 19, approved spector of the RF dated 10.0 Emendments No. 19, approved spector of the RF dated 10.0 Emendments No. 19, approved spector of the RF dated 10.0 Emendments No. 19, approved spector of the RF dated 10.0 Emendments No. 19, approved spector of the RF dated 10.0 Emendments No. 19, approved spector of the RF dated 10.0 Emendments No. 19, approved spector of the RF dated 10.0 Emendments No. 19, approved spector of the RF dated 10.0 Emendments No. 19, approved spector of the RF dated 10.0 Emendments No. 19, approved spector of the RF dated 10.0 Emendments No. 19, approved spector of the RF dated 10.0 Emendments No. 19, approved spector of the RF dated 10.0 Emendments No. 19, approved spector of the RF dated 10.0 Emendments No. 19, approved spector of the RF dated 10.0 Emendments No. 19, approved spector	All species, aerial part by Resolution No 08.2010) Leaves, flowers by Resolution No 08.2010) Flowers, aerial part by Resolution No 08.2010) Aerial part by Resolution No 08.2010)
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Clause 306 was 02 of Chief Sta 307. Indian bla Clause 307 was 02 of Chief Sta 308. British in Clause 308 was 02 of Chief Sta 309. Inula ocul Clause 309 was 02 of Chief Sta 310. Delosperma	ate Sanitary Instanket  introduced by Fate Sanitary Instantant introduced by Fate Sanitary Instantant lus-christi introduced by Fate Sanitary Instantant	Amendments No. 19, approved spector of the RF dated 10.0 Gaillardia pulchella Foug. Amendments No. 19, approved spector of the RF dated 10.0 Inula Britannica L.  Amendments No. 19, approved spector of the RF dated 10.0 Inula oculus-christi L.  Amendments No. 19, approved spector of the RF dated 10.0 Inula oculus-christi L.  Amendments No. 19, approved spector of the RF dated 10.0 Delosperma	All species, aerial part by Resolution No 08.2010) Leaves, flowers by Resolution No 08.2010) Flowers, aerial part by Resolution No 08.2010) Aerial part by Resolution No 08.2010) All species, aerial part
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Clause 306 was 02 of Chief Sta 307. Indian bla Clause 307 was 02 of Chief Sta 308. British in Clause 308 was 02 of Chief Sta 309. Inula ocu Clause 309 was 02 of Chief Sta 310. Delosperma Clause 310 was 02 of Chief Sta 311. Desmodium Clause 311 was 02 of Chief Sta 312. Desmodium Clause 312 was 02 of Chief Sta 313. Desmodium Clause 312 was 02 of Chief Sta 313. Dicentra	ate Sanitary Insanket  introduced by Fate Sanitary Insanula  introduced by Fate Sanitary Insalus-christi introduced by Fate Sanitary Insalus-christi introduced by Fate Sanitary Insalus Facemosum introduced by Fate Sanitary Insalus Sanitary Insalus Sanitary Insalus Sanitary Insalus Sanitary Insalus Sanitary Insalus Sanitary Insalus Sanitary Insalus Sanitary Insalus Sanitary Insalus Sanitary Insalus Sanitary Insalus Sanitary Insalus Sanitary Insalus Sanitary Insalus Sanitary Insalus Sanitary Insalus Sanitary Insalus Sanitary Insalus Sanitary Insalus Sanitary Insalus Sanitary Insalus Sanitary Insalus Sanitary Insalus Sanitary Insalus Sanitary Insalus Sanitary Insalus Sanitary Insalus Sanitary Insalus Sanitary Insalus Sanitary Insalus Sanitary Insalus Sanitary Insalus Sanitary Insalus Sanitary Insalus Sanitary Insalus Sanitary Insalus Sanitary Insalus Sanitary Insalus Sanitary Insalus Sanitary Insalus Sanitary Insalus Sanitary Insalus Sanitary Insalus Sanitary Insalus Sanitary Insalus Sanitary Insalus Sanitary Insalus Sanitary Insalus Sanitary Insalus Sanitary Insalus Sanitary Insalus Sanitary Insalus Sanitary Insalus Sanitary Insalus Sanitary Insalus Sanitary Insalus Sanitary Insalus Sanitary Insalus Sanitary Insalus Sanitary Insalus Sanitary Insalus Sanitary Insalus Sanitary Insalus Sanitary Insalus Sanitary Insalus Sanitary Insalus Sanitary Sanitary Insalus Sanitary Insalus Sanitary Sanitary Sanitary Sanitary Sanitary Sanitary Sanitary Sanitary Sanitary Sanitary Sanitary Sanitary Sanitary Sanitary Sanitary Sanitary Sanitary Sanitary Sanitary Sanitary Sanitary Sanitary Sanitary Sanitary Sanitary Sanitary Sanitary Sanitary Sanitary Sanitary Sanitary Sanitary Sanitary Sanitary Sanitary Sanitary Sanitary Sanitary Sanitary Sanitary Sanitary Sanitary Sanitary Sanitary Sanitary Sanitary Sanitary Sanitary Sanitary Sanitary Sanitary Sanitary Sanitary Sanitary Sanitary Sanitary Sanitary Sanitary Sanitary Sanitary Sanitary Sanitary Sanitary Sanitary Sanitary Sanitary Sanitary Sanitary Sanitary Sanitary Sanitary Sanitary Sa	Amendments No. 19, approved spector of the RF dated 10.0 Gaillardia pulchella Foug.  Amendments No. 19, approved spector of the RF dated 10.0 Inula Britannica L.  Amendments No. 19, approved spector of the RF dated 10.0 Inula oculus-christi L.  Amendments No. 19, approved spector of the RF dated 10.0 Delosperma  Amendments No. 19, approved spector of the RF dated 10.0 Desmodium racemosum DC  Amendments No. 19, approved spector of the RF dated 10.0 Desmodium pulchellum Benth.  Amendments No. 19, approved spector of the RF dated 10.0 Desmodium pulchellum Benth.  Amendments No. 19, approved spector of the RF dated 10.0 Spector of the RF dated 10.0 Spector of the RF dated 10.0 Spector of the RF dated 10.0 Spector of the RF dated 10.0 Spector of the RF dated 10.0 Spector of the RF dated 10.0 Spector of the RF dated 10.0 Spector of the RF dated 10.0 Spector of the RF dated 10.0 Spector of the RF dated 10.0 Spector of the RF dated 10.0 Spector of the RF dated 10.0 Spector of the RF dated 10.0 Spector of the RF dated 10.0 Spector of the RF dated 10.0 Spector of the RF dated 10.0 Spector of the RF dated 10.0 Spector of the RF dated 10.0 Spector of the RF dated 10.0 Spector of the RF dated 10.0 Spector of the RF dated 10.0 Spector of the RF dated 10.0 Spector of the RF dated 10.0 Spector of the RF dated 10.0 Spector of the RF dated 10.0 Spector of the RF dated 10.0 Spector of the RF dated 10.0 Spector of the RF dated 10.0 Spector of the RF dated 10.0 Spector of the RF dated 10.0 Spector of the RF dated 10.0 Spector of the RF dated 10.0 Spector of the RF dated 10.0 Spector of the RF dated 10.0 Spector of the RF dated 10.0 Spector of the RF dated 10.0 Spector of the RF dated 10.0 Spector of the RF dated 10.0 Spector of the RF dated 10.0 Spector of the RF dated 10.0 Spector of the RF dated 10.0 Spector of the RF dated 10.0 Spector of the RF dated 10.0 Spector of the RF dated 10.0 Spector of the RF dated 10.0 Spector of the RF dated 10.0 Spector of the RF dated 10.0 Spector of the RF dated 10.0 Spector of the RF dated 10.0 S	All species, aerial part by Resolution No 18.2010) Leaves, flowers by Resolution No 18.2010) Flowers, aerial part by Resolution No 18.2010) Aerial part by Resolution No 18.2010) All species, aerial part by Resolution No 18.2010) Aerial part by Resolution No 18.2010) Aerial part by Resolution No 18.2010) Aerial part by Resolution No 18.2010) Aerial part by Resolution No 18.2010) Aerial part by Resolution No 18.2010) Aerial part

314. Duboisia (Corkwood Tree)	Duboisia	All species,
		aerial part
(Clause 314 was introduced by A		
102 of Chief State Sanitary In:		
315. Eubotryoides grayana	Eubotryoides grayana Hara	Leaves
(Clause 315 was introduced by A	Amendments No. 19, approved	by Resolution No.
102 of Chief State Sanitary Ins	spector of the RF dated 10.0	08.2010)
Illiciaceae	Illiciaceae	All species,
316.		seeds,
		leaves
/Gl 31 C introduced less	7	1
(Clause 316 was introduced by A		
102 of Chief State Sanitary Ins		
317. Bulbous canarygrass	Phalaris tuberosa L.	Aerial part
(Clause 317 was introduced by A	Amendments No. 19, approved	by Resolution No.
102 of Chief State Sanitary In:	spector of the RF dated 10.0	08.2010)
318. Pilulare nettle	Urtica pilulifera L.	Aerial part
(Clause 318 was introduced by A	Amendments No. 19, approved	
102 of Chief State Sanitary Ins	= =	<del>-</del>
Lespedeza bicolor	Lespedeza bicolor Turcz	Leaves,
319.	Leopeucza Dicoror Turcz	· · · · · · · · · · · · · · · · · · ·
219.		bark,
	<u> </u>	rootstock
(Clause 319 was introduced by A	Amendments No. 19, approved	by Resolution No.
102 of Chief State Sanitary In:	spector of the RF dated 10.0	08.2010)
320. Silverberry	Elaeagnus	All species,
320.		aerial part
(Clause 320 was introduced by A	Amendments No. 19, approved	_
102 of Chief State Sanitary Ins		_
Mammillaria	Mammillaria	
321. Manual Talla	Manunitiatia	All species,
		aerial part
(Clause 321 was introduced by A		
102 of Chief State Sanitary Ins	anagtor of the DE dated 10 (	10 20101
TOT OF CHITCH DUALCE DUTITUALY III,	spector of the RF dated 10.0	10.2010)
Mostuea stimulans	Mostuea stimulans A.	Aerial part
322. Mostuea stimulans	Mostuea stimulans A. Cheval	Aerial part
322. Mostuea stimulans (Clause 322 was introduced by 2	Mostuea stimulans A. Cheval Amendments No. 19, approved	Aerial part by Resolution No.
322. Mostuea stimulans  (Clause 322 was introduced by 102 of Chief State Sanitary Ins	Mostuea stimulans A. Cheval Amendments No. 19, approved spector of the RF dated 10.0	Aerial part by Resolution No. 8.2010)
322. Mostuea stimulans (Clause 322 was introduced by 2	Mostuea stimulans A. Cheval Amendments No. 19, approved	Aerial part by Resolution No. 8.2010) Essential oil
322. Mostuea stimulans  (Clause 322 was introduced by 2 102 of Chief State Sanitary Ins 323. Peumus boldus	Mostuea stimulans A. Cheval Amendments No. 19, approved spector of the RF dated 10.0 Peumus boldus Molina	Aerial part by Resolution No. 8.2010) Essential oil from leaves
322. Mostuea stimulans  (Clause 322 was introduced by 2 102 of Chief State Sanitary Ins 323. Peumus boldus  (Clause 323 was introduced by 2	Mostuea stimulans A. Cheval  Amendments No. 19, approved spector of the RF dated 10.0  Peumus boldus Molina  Amendments No. 19, approved	Aerial part  by Resolution No. 8.2010)  Essential oil from leaves by Resolution No.
322. Mostuea stimulans  (Clause 322 was introduced by 2 102 of Chief State Sanitary Ins 323. Peumus boldus  (Clause 323 was introduced by 2 102 of Chief State Sanitary Ins	Mostuea stimulans A. Cheval Amendments No. 19, approved spector of the RF dated 10.0 Peumus boldus Molina Amendments No. 19, approved spector of the RF dated 10.0	Aerial part  by Resolution No. 08.2010)  Essential oil from leaves by Resolution No. 08.2010)
322. Mostuea stimulans  (Clause 322 was introduced by 2 102 of Chief State Sanitary Ins 323. Peumus boldus  (Clause 323 was introduced by 2 102 of Chief State Sanitary Ins	Mostuea stimulans A. Cheval Amendments No. 19, approved spector of the RF dated 10.0 Peumus boldus Molina Amendments No. 19, approved	Aerial part  by Resolution No. 8.2010)  Essential oil from leaves by Resolution No.
322. Mostuea stimulans  (Clause 322 was introduced by 2 102 of Chief State Sanitary Ins 323. Peumus boldus  (Clause 323 was introduced by 2 102 of Chief State Sanitary Ins	Mostuea stimulans A. Cheval Amendments No. 19, approved spector of the RF dated 10.0 Peumus boldus Molina Amendments No. 19, approved spector of the RF dated 10.0	Aerial part  by Resolution No. 08.2010)  Essential oil from leaves by Resolution No. 08.2010)
322. Mostuea stimulans  (Clause 322 was introduced by 2 102 of Chief State Sanitary Ins 323. Peumus boldus  (Clause 323 was introduced by 2 102 of Chief State Sanitary Ins	Mostuea stimulans A. Cheval Amendments No. 19, approved spector of the RF dated 10.0 Peumus boldus Molina Amendments No. 19, approved spector of the RF dated 10.0 Piptadenia	Aerial part  by Resolution No. 8.2010)  Essential oil from leaves by Resolution No. 8.2010)  All species, all parts
322. Mostuea stimulans  (Clause 322 was introduced by 2 102 of Chief State Sanitary Ins 323. Peumus boldus  (Clause 323 was introduced by 2 102 of Chief State Sanitary Ins 324. Piptadenia  (Clause 324 was introduced by 2	Mostuea stimulans A. Cheval  Amendments No. 19, approved spector of the RF dated 10.0  Peumus boldus Molina  Amendments No. 19, approved spector of the RF dated 10.0  Piptadenia  Amendments No. 19, approved	Aerial part  by Resolution No. 8.2010)  Essential oil from leaves by Resolution No. 8.2010)  All species, all parts by Resolution No.
322. Mostuea stimulans  (Clause 322 was introduced by 2 102 of Chief State Sanitary Ins 323. Peumus boldus  (Clause 323 was introduced by 2 102 of Chief State Sanitary Ins 324. Piptadenia  (Clause 324 was introduced by 2 102 of Chief State Sanitary Ins Roubieva multifida	Mostuea stimulans A. Cheval  Amendments No. 19, approved spector of the RF dated 10.0  Peumus boldus Molina  Amendments No. 19, approved spector of the RF dated 10.0  Piptadenia  Amendments No. 19, approved spector of the RF dated 10.0	Aerial part  by Resolution No. 8.2010)  Essential oil from leaves by Resolution No. 8.2010)  All species, all parts by Resolution No.
322. Mostuea stimulans  (Clause 322 was introduced by 2 102 of Chief State Sanitary Ins 323. Peumus boldus  (Clause 323 was introduced by 2 102 of Chief State Sanitary Ins 324. Piptadenia  (Clause 324 was introduced by 2	Mostuea stimulans A. Cheval  Amendments No. 19, approved spector of the RF dated 10.0  Peumus boldus Molina  Amendments No. 19, approved spector of the RF dated 10.0  Piptadenia  Amendments No. 19, approved	Aerial part  by Resolution No. 8.2010)  Essential oil from leaves by Resolution No. 8.2010)  All species, all parts by Resolution No. 8.2010)  Essential oils
322. Mostuea stimulans  (Clause 322 was introduced by 2 102 of Chief State Sanitary Ins 323. Peumus boldus  (Clause 323 was introduced by 2 102 of Chief State Sanitary Ins 324. Piptadenia  (Clause 324 was introduced by 2 102 of Chief State Sanitary Ins 325. Roubieva multifida	Mostuea stimulans A. Cheval  Amendments No. 19, approved spector of the RF dated 10.0  Peumus boldus Molina  Amendments No. 19, approved spector of the RF dated 10.0  Piptadenia  Amendments No. 19, approved spector of the RF dated 10.0  Roubieva multifida Moq.	Aerial part  by Resolution No. 8.2010)  Essential oil from leaves by Resolution No. 8.2010)  All species, all parts by Resolution No. 8.2010)  Essential oils from aerial parts
322. Mostuea stimulans  (Clause 322 was introduced by 2 102 of Chief State Sanitary Ins 323. Peumus boldus  (Clause 323 was introduced by 2 102 of Chief State Sanitary Ins 324. Piptadenia  (Clause 324 was introduced by 2 102 of Chief State Sanitary Ins 325. Roubieva multifida  (Clause 325 was introduced by 2 102 of Chief State Sanitary Ins 325.	Mostuea stimulans A. Cheval  Amendments No. 19, approved spector of the RF dated 10.0  Peumus boldus Molina  Amendments No. 19, approved spector of the RF dated 10.0  Piptadenia  Amendments No. 19, approved spector of the RF dated 10.0  Roubieva multifida Moq.  Amendments No. 19, approved	Aerial part  by Resolution No.  8.2010)  Essential oil from leaves by Resolution No.  8.2010)  All species, all parts by Resolution No.  8.2010)  Essential oils from aerial parts by Resolution No.
322. Mostuea stimulans  (Clause 322 was introduced by 2102 of Chief State Sanitary Instance 323. Peumus boldus  (Clause 323 was introduced by 2102 of Chief State Sanitary Instance 324. Piptadenia  (Clause 324 was introduced by 2102 of Chief State Sanitary Instance 325. Roubieva multifida  (Clause 325 was introduced by 2102 of Chief State Sanitary Instance 325. Roubieva multifida	Mostuea stimulans A. Cheval  Amendments No. 19, approved spector of the RF dated 10.0 Peumus boldus Molina  Amendments No. 19, approved spector of the RF dated 10.0 Piptadenia  Amendments No. 19, approved spector of the RF dated 10.0 Roubieva multifida Moq.  Amendments No. 19, approved spector of the RF dated 10.0 Roubieva multifida Moq.	Aerial part  by Resolution No.  8.2010)  Essential oil from leaves by Resolution No.  8.2010)  All species, all parts by Resolution No.  8.2010)  Essential oils from aerial parts by Resolution No.  8.2010)
322. Mostuea stimulans  (Clause 322 was introduced by 2 102 of Chief State Sanitary Ins 323. Peumus boldus  (Clause 323 was introduced by 2 102 of Chief State Sanitary Ins 324. Piptadenia  (Clause 324 was introduced by 2 102 of Chief State Sanitary Ins 325. Roubieva multifida  (Clause 325 was introduced by 2 102 of Chief State Sanitary Ins 326. Common box tree	Mostuea stimulans A. Cheval  Amendments No. 19, approved spector of the RF dated 10.0  Peumus boldus Molina  Amendments No. 19, approved spector of the RF dated 10.0  Piptadenia  Amendments No. 19, approved spector of the RF dated 10.0  Roubieva multifida Moq.  Amendments No. 19, approved spector of the RF dated 10.0  Roubieva multifida Moq.  Buxus sempervirens L.	Aerial part  by Resolution No. 8.2010)  Essential oil from leaves by Resolution No. 8.2010)  All species, all parts by Resolution No. 8.2010)  Essential oils from aerial parts by Resolution No. 8.2010)  Stem, leaves
322. Mostuea stimulans  (Clause 322 was introduced by 2102 of Chief State Sanitary Instance 323. Peumus boldus  (Clause 323 was introduced by 2102 of Chief State Sanitary Instance 324. Piptadenia  (Clause 324 was introduced by 2102 of Chief State Sanitary Instance 325. Roubieva multifida  (Clause 325 was introduced by 2102 of Chief State Sanitary Instance 325. Roubieva multifida	Mostuea stimulans A. Cheval  Amendments No. 19, approved spector of the RF dated 10.0  Peumus boldus Molina  Amendments No. 19, approved spector of the RF dated 10.0  Piptadenia  Amendments No. 19, approved spector of the RF dated 10.0  Roubieva multifida Moq.  Amendments No. 19, approved spector of the RF dated 10.0  Roubieva multifida Moq.  Buxus sempervirens L.	Aerial part  by Resolution No. 8.2010)  Essential oil from leaves by Resolution No. 8.2010)  All species, all parts by Resolution No. 8.2010)  Essential oils from aerial parts by Resolution No. 8.2010)  Stem, leaves
322. Mostuea stimulans  (Clause 322 was introduced by 2 102 of Chief State Sanitary Ins 323. Peumus boldus  (Clause 323 was introduced by 2 102 of Chief State Sanitary Ins 324. Piptadenia  (Clause 324 was introduced by 2 102 of Chief State Sanitary Ins 325. Roubieva multifida  (Clause 325 was introduced by 2 102 of Chief State Sanitary Ins 326. Common box tree	Mostuea stimulans A. Cheval  Amendments No. 19, approved spector of the RF dated 10.0  Peumus boldus Molina  Amendments No. 19, approved spector of the RF dated 10.0  Piptadenia  Amendments No. 19, approved spector of the RF dated 10.0  Roubieva multifida Moq.  Amendments No. 19, approved spector of the RF dated 10.0  Buxus sempervirens L.  Amendments No. 19, approved	Aerial part  by Resolution No. 8.2010)  Essential oil from leaves by Resolution No. 8.2010)  All species, all parts by Resolution No. 98.2010)  Essential oils from aerial parts by Resolution No. 98.2010)  Stem, leaves by Resolution No.
322. Mostuea stimulans  (Clause 322 was introduced by 2 102 of Chief State Sanitary Ins 323. Peumus boldus  (Clause 323 was introduced by 2 102 of Chief State Sanitary Ins 324. Piptadenia  (Clause 324 was introduced by 2 102 of Chief State Sanitary Ins 325. Roubieva multifida  (Clause 325 was introduced by 2 102 of Chief State Sanitary Ins 326. Common box tree  (Clause 326 was introduced by 2 102 of Chief State Sanitary Ins 326. Common box tree	Mostuea stimulans A. Cheval  Amendments No. 19, approved spector of the RF dated 10.0  Peumus boldus Molina  Amendments No. 19, approved spector of the RF dated 10.0  Piptadenia  Amendments No. 19, approved spector of the RF dated 10.0  Roubieva multifida Moq.  Amendments No. 19, approved spector of the RF dated 10.0  Buxus sempervirens L.  Amendments No. 19, approved	Aerial part  by Resolution No. 8.2010)  Essential oil from leaves by Resolution No. 8.2010)  All species, all parts by Resolution No. 98.2010)  Essential oils from aerial parts by Resolution No. 98.2010)  Stem, leaves by Resolution No.
322. Mostuea stimulans  (Clause 322 was introduced by 7 102 of Chief State Sanitary Ins 323. Peumus boldus  (Clause 323 was introduced by 7 102 of Chief State Sanitary Ins 324. Piptadenia  (Clause 324 was introduced by 7 102 of Chief State Sanitary Ins 325. Roubieva multifida  (Clause 325 was introduced by 7 102 of Chief State Sanitary Ins 326. Common box tree  (Clause 326 was introduced by 7 102 of Chief State Sanitary Ins 326. Common box tree  (Clause 326 was introduced by 7 102 of Chief State Sanitary Ins	Mostuea stimulans A. Cheval  Amendments No. 19, approved spector of the RF dated 10.0  Peumus boldus Molina  Amendments No. 19, approved spector of the RF dated 10.0  Piptadenia  Amendments No. 19, approved spector of the RF dated 10.0  Roubieva multifida Moq.  Amendments No. 19, approved spector of the RF dated 10.0  Buxus sempervirens L.  Amendments No. 19, approved spector of the RF dated 10.0  Buxus sempervirens L.  Amendments No. 19, approved spector of the RF dated 10.0	Aerial part  by Resolution No. 8.2010)  Essential oil from leaves by Resolution No. 8.2010)  All species, all parts by Resolution No. 8.2010)  Essential oils from aerial parts by Resolution No. 8.2010)  Stem, leaves by Resolution No. 8.2010)
322. Mostuea stimulans  (Clause 322 was introduced by 2 102 of Chief State Sanitary Ins 323. Peumus boldus  (Clause 323 was introduced by 2 102 of Chief State Sanitary Ins 324. Piptadenia  (Clause 324 was introduced by 2 102 of Chief State Sanitary Ins 325. Roubieva multifida  (Clause 325 was introduced by 2 102 of Chief State Sanitary Ins 326. Common box tree  (Clause 326 was introduced by 2 102 of Chief State Sanitary Ins 326. Common box tree  (Clause 326 was introduced by 2 102 of Chief State Sanitary Ins 327. Schoenocaulon officinal	Mostuea stimulans A. Cheval  Amendments No. 19, approved spector of the RF dated 10.0  Peumus boldus Molina  Amendments No. 19, approved spector of the RF dated 10.0  Piptadenia  Amendments No. 19, approved spector of the RF dated 10.0  Roubieva multifida Moq.  Amendments No. 19, approved spector of the RF dated 10.0  Buxus sempervirens L.  Amendments No. 19, approved spector of the RF dated 10.0  Schoenocaulon officinal Trichocereus A. Gray	Aerial part  by Resolution No. 8.2010)  Essential oil from leaves by Resolution No. 8.2010)  All species, all parts by Resolution No. 8.2010)  Essential oils from aerial parts by Resolution No. 8.2010)  Stem, leaves by Resolution No. 8.2010)  Stem, leaves by Resolution No. 8.2010)  Stem, Seeds
322. Mostuea stimulans  (Clause 322 was introduced by 2 102 of Chief State Sanitary Ins 323. Peumus boldus  (Clause 323 was introduced by 2 102 of Chief State Sanitary Ins 324. Piptadenia  (Clause 324 was introduced by 2 102 of Chief State Sanitary Ins 325. Roubieva multifida  (Clause 325 was introduced by 2 102 of Chief State Sanitary Ins 326. Common box tree  (Clause 326 was introduced by 2 102 of Chief State Sanitary Ins 326. Common box tree  (Clause 326 was introduced by 2 102 of Chief State Sanitary Ins 327. Schoenocaulon officinal	Mostuea stimulans A. Cheval  Amendments No. 19, approved spector of the RF dated 10.0  Peumus boldus Molina  Amendments No. 19, approved spector of the RF dated 10.0  Piptadenia  Amendments No. 19, approved spector of the RF dated 10.0  Roubieva multifida Moq.  Amendments No. 19, approved spector of the RF dated 10.0  Buxus sempervirens L.  Amendments No. 19, approved spector of the RF dated 10.0  Schoenocaulon officinal Trichocereus A. Gray  Amendments No. 19, approved	Aerial part  by Resolution No. 8.2010)  Essential oil from leaves by Resolution No. 8.2010)  All species, all parts by Resolution No. 8.2010)  Essential oils from aerial parts by Resolution No. 8.2010)  Stem, leaves by Resolution No. 8.2010)  Stem, leaves by Resolution No. 8.2010)  Seeds
322. Mostuea stimulans  (Clause 322 was introduced by 7 102 of Chief State Sanitary Ins 323. Peumus boldus  (Clause 323 was introduced by 7 102 of Chief State Sanitary Ins 324. Piptadenia  (Clause 324 was introduced by 7 102 of Chief State Sanitary Ins 325. Roubieva multifida  (Clause 325 was introduced by 7 102 of Chief State Sanitary Ins 326. Common box tree  (Clause 326 was introduced by 7 102 of Chief State Sanitary Ins 327. Schoenocaulon officinal  (Clause 327 was introduced by 7 102 of Chief State Sanitary Ins 327. Trichocareus	Mostuea stimulans A. Cheval  Amendments No. 19, approved spector of the RF dated 10.0  Peumus boldus Molina  Amendments No. 19, approved spector of the RF dated 10.0  Piptadenia  Amendments No. 19, approved spector of the RF dated 10.0  Roubieva multifida Moq.  Amendments No. 19, approved spector of the RF dated 10.0  Buxus sempervirens L.  Amendments No. 19, approved spector of the RF dated 10.0  Schoenocaulon officinal Trichocereus A. Gray  Amendments No. 19, approved spector of the RF dated 10.0  Schoenocaulon officinal Trichocereus A. Gray  Amendments No. 19, approved spector of the RF dated 10.0  Schoenocaulon officinal Trichocereus A. Gray  Amendments No. 19, approved spector of the RF dated 10.0	Aerial part  by Resolution No.  8.2010)  Essential oil from leaves by Resolution No.  8.2010)  All species, all parts by Resolution No.  8.2010)  Essential oils from aerial parts by Resolution No.  8.2010)  Stem, leaves by Resolution No.  8.2010)  Stem, leaves by Resolution No.  8.2010)  Seeds  by Resolution No.  8.2010)
322. Mostuea stimulans  (Clause 322 was introduced by 2 102 of Chief State Sanitary Ins 323. Peumus boldus  (Clause 323 was introduced by 2 102 of Chief State Sanitary Ins 324. Piptadenia  (Clause 324 was introduced by 2 102 of Chief State Sanitary Ins 325. Roubieva multifida  (Clause 325 was introduced by 2 102 of Chief State Sanitary Ins 326. Common box tree  (Clause 326 was introduced by 2 102 of Chief State Sanitary Ins 326. Common box tree  (Clause 326 was introduced by 2 102 of Chief State Sanitary Ins 327. Schoenocaulon officinal	Mostuea stimulans A. Cheval  Amendments No. 19, approved spector of the RF dated 10.0  Peumus boldus Molina  Amendments No. 19, approved spector of the RF dated 10.0  Piptadenia  Amendments No. 19, approved spector of the RF dated 10.0  Roubieva multifida Moq.  Amendments No. 19, approved spector of the RF dated 10.0  Buxus sempervirens L.  Amendments No. 19, approved spector of the RF dated 10.0  Schoenocaulon officinal Trichocereus A. Gray  Amendments No. 19, approved	Aerial part  by Resolution No.  8.2010)  Essential oil from leaves by Resolution No.  8.2010)  All species, all parts by Resolution No.  8.2010)  Essential oils from aerial parts by Resolution No.  8.2010)  Stem, leaves by Resolution No.  8.2010)  Stem, leaves by Resolution No.  8.2010)  Seeds  by Resolution No.  8.2010)  All species,
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GClause 322 was introduced by a 102 of Chief State Sanitary Institute 323. Peumus boldus  (Clause 323 was introduced by a 102 of Chief State Sanitary Institute 324. Piptadenia  (Clause 324 was introduced by a 102 of Chief State Sanitary Institute 325. Roubieva multifida  (Clause 325 was introduced by a 102 of Chief State Sanitary Institute 326. Common box tree  (Clause 326 was introduced by a 102 of Chief State Sanitary Institute 327. Schoenocaulon officinal  (Clause 327 was introduced by a 102 of Chief State Sanitary Institute 327. Trichocereus	Mostuea stimulans A. Cheval  Amendments No. 19, approved spector of the RF dated 10.0 Peumus boldus Molina  Amendments No. 19, approved spector of the RF dated 10.0 Piptadenia  Amendments No. 19, approved spector of the RF dated 10.0 Roubieva multifida Moq.  Amendments No. 19, approved spector of the RF dated 10.0 Buxus sempervirens L.  Amendments No. 19, approved spector of the RF dated 10.0 Schoenocaulon officinal Trichocereus A. Gray  Amendments No. 19, approved spector of the RF dated 10.0 Trichocereus A. Gray  Amendments No. 19, approved spector of the RF dated 10.0 Trichocereus  Amendments No. 19, approved spector of the RF dated 10.0 Trichocereus	Aerial part  by Resolution No.  8.2010)  Essential oil from leaves by Resolution No.  8.2010)  All species, all parts by Resolution No.  8.2010)  Essential oils from aerial parts by Resolution No.  8.2010)  Stem, leaves by Resolution No.  8.2010)  Stem, leaves by Resolution No.  8.2010)  Seeds  by Resolution No.  8.2010)  All species, aerial part by Resolution No.
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322. Mostuea stimulans  (Clause 322 was introduced by 2 102 of Chief State Sanitary Ins 323. Peumus boldus  (Clause 323 was introduced by 2 102 of Chief State Sanitary Ins 324. Piptadenia  (Clause 324 was introduced by 2 102 of Chief State Sanitary Ins 325. Roubieva multifida  (Clause 325 was introduced by 2 102 of Chief State Sanitary Ins 326. Common box tree  (Clause 326 was introduced by 2 102 of Chief State Sanitary Ins 327. Schoenocaulon officinal  (Clause 327 was introduced by 2 102 of Chief State Sanitary Ins 328. Trichocereus  (Clause 328 was introduced by 2 102 of Chief State Sanitary Ins 328. Trichocereus	Mostuea stimulans A. Cheval  Amendments No. 19, approved spector of the RF dated 10.0 Peumus boldus Molina  Amendments No. 19, approved spector of the RF dated 10.0 Piptadenia  Amendments No. 19, approved spector of the RF dated 10.0 Roubieva multifida Moq.  Amendments No. 19, approved spector of the RF dated 10.0 Buxus sempervirens L.  Amendments No. 19, approved spector of the RF dated 10.0 Schoenocaulon officinal Trichocereus A. Gray  Amendments No. 19, approved spector of the RF dated 10.0 Trichocereus  Amendments No. 19, approved spector of the RF dated 10.0 Trichocereus  Amendments No. 19, approved spector of the RF dated 10.0 Trichocereus  Amendments No. 19, approved spector of the RF dated 10.0 Trichocereus	Aerial part  by Resolution No.  8.2010)  Essential oil from leaves by Resolution No.  8.2010)  All species, all parts by Resolution No.  8.2010)  Essential oils from aerial parts by Resolution No.  8.2010)  Stem, leaves by Resolution No.  8.2010)  Stem, leaves by Resolution No.  8.2010)  Seeds  by Resolution No.  8.2010)  All species, aerial part by Resolution No.  8.2010)
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GClause 322 was introduced by a state Sanitary Installation (Clause 323 was introduced by a state Sanitary Installation (Clause 323 was introduced by a state Sanitary Installation (Clause 324 was introduced by a state Sanitary Installation (Clause 324 was introduced by a state Sanitary Installation (Clause 325 was introduced by a state Sanitary Installation (Clause 325 was introduced by a state Sanitary Installation (Clause 326 was introduced by a state Sanitary Installation (Clause 326 was introduced by a state Sanitary Installation (Clause 327 was introduced by a state Sanitary Installation (Clause 327 was introduced by a state Sanitary Installation (Clause 328 was introduced by a state Sanitary Installation (Clause 328 was introduced by a state Sanitary Installation (Clause 328 was introduced by a state Sanitary Installation (Clause 328 was introduced by a state Sanitary Installation (Clause 328 was introduced by a state Sanitary Installation (Clause 328 was introduced by a state Sanitary Installation (Clause 328 was introduced by a state Sanitary Installation (Clause 328 was introduced by a state Sanitary Installation (Clause 328 was introduced by a state Sanitary Installation (Clause 328 was introduced by a state Sanitary Installation (Clause 328 was introduced by a state Sanitary Installation (Clause 328 was introduced by a state Sanitary Installation (Clause 328 was introduced by a state Sanitary Installation (Clause 328 was introduced by a state Sanitary Installation (Clause 328 was introduced by a state Sanitary Installation (Clause 328 was introduced by a state Sanitary Installation (Clause 328 was introduced by a state Sanitary Installation (Clause 328 was introduced by a state Sanitary Installation (Clause 328 was introduced by a state Sanitary Installation (Clause 328 was introduced by a state Sanitary Installation (Clause 328 was introduced by a state Sanitary Installation (Clause 328 was introduced by a state Sanitary Installation (Clause 328 was introduced by a state Sanitary Installation (Claus	Mostuea stimulans A. Cheval  Amendments No. 19, approved spector of the RF dated 10.0  Peumus boldus Molina  Amendments No. 19, approved spector of the RF dated 10.0  Piptadenia  Amendments No. 19, approved spector of the RF dated 10.0  Roubieva multifida Moq.  Amendments No. 19, approved spector of the RF dated 10.0  Buxus sempervirens L.  Amendments No. 19, approved spector of the RF dated 10.0  Schoenocaulon officinal Trichocereus A. Gray  Amendments No. 19, approved spector of the RF dated 10.0  Trichocereus A. Gray  Amendments No. 19, approved spector of the RF dated 10.0  Trichocereus  Amendments No. 19, approved spector of the RF dated 10.0  Phragmites Australia Trin. ex Steud.  Amendments No. 19, approved	Aerial part  by Resolution No. 8.2010)  Essential oil from leaves by Resolution No. 8.2010)  All species, all parts by Resolution No. 8.2010)  Essential oils from aerial parts by Resolution No. 8.2010)  Stem, leaves by Resolution No. 8.2010)  Stem, leaves by Resolution No. 8.2010)  Seeds  by Resolution No. 8.2010)  All species, aerial part by Resolution No. 8.2010)  Roststock  by Resolution No.

330.Ferula gummosa	Ferula gummosa Boiss	Seeds
(Clause 330 was introduced by	,	
102 of Chief State Sanitary In	spector of the RF dated 10.0	_
(Sweet gale)	Moench	Aerial part
(Clause 331 was introduced by 2 102 of Chief State Sanitary In		-
332. Haplophyllum	Haplophyllum	All species, all parts
(Clause 332 was introduced by		by Resolution No.
102 of Chief State Sanitary In 333. Eriophyllum		All species, bark
(Clause 333 was introduced by		
102 of Chief State Sanitary In		_
334. White Dittany	Dictamnus albus L.	Leaves, fruits
(Clause 334 was introduced by 1		=
102 of Chief State Sanitary In		
Calamus root	Acorus calamus L.	Rootstock,
		essential oil, leaves
(Clause 335 was introduced by	Amendments No. 23, approved	
30 of Chief State Sanitary Ins		=
Japanese sweet flag	Acorus gramineus Soland.	Rootstock,
336.	(= A. pusillus Sieb.)	essential oil,
		leaves
(Clause 336 was introduced by 330 of Chief State Sanitary Ins		
337. Bienertia cycloptera		
(Clause 337 was introduced by	•	
30 of Chief State Sanitary Ins		_
338. Bassia cycloptera	Bassia cycloptera Bunge	
(Clause 338 was introduced by	1	-
30 of Chief State Sanitary Ins		1.2011)
339. Earth Chestnut	Bunium persicum B. Fedtsch.	All parts
(Clause 339 was introduced by		_
30 of Chief State Sanitary Insp		
340.	Bunium cylindricum Drude	Aerial part and its essential oil
(Clause 340 was introduced by		
30 of Chief State Sanitary Insp		
341. Chin cactus	Gymnocalycium	Aerial part
(Clause 341 was introduced by 30 of Chief State Sanitary Ins		
342. Ribbon grass	Phalaris tuberose L.	Aerial part
(Clause 342 was introduced by		*
30 of Chief State Sanitary Ins		
343. Jointed anabis	Anabasis articulate	Aerial part
(Clause 343 was introduced by		
30 of Chief State Sanitary Ins		
344. Tarhana herb	Echinophoria sibthorpiana Huss	-
(Clause 344 was introduced by 2		=
30 of Chief State Sanitary Ins	1	
345. Colocynth	Citrullus colocynthis Schrad.	Fruit (powder, extract)
(Clause 345 was introduced by		_
30 of Chief State Sanitary Insp	1	
Nipple Beehive Cactus	Coryphantha micromeris Lern.	The whole plant
(Clause 346 was introduced by	Amendments No. 23, approved	*
30 of Chief State Sanitary Insp		_

347. Saltbush	Artriplex nummularia Lindl.	Aerial part					
(Clause 347 was introduced by Amendments No. 23, approved by Resolution No. 30 of Chief State Sanitary Inspector of the RF dated 11.04.2011)							
	Agastache rugosa O.Kuntze						
(Clause 348 was introduced by A 30 of Chief State Sanitary Insp	•	-					
349. Miniature beefsteakplant	Mosla dianthera L.	Essential oil					
(Clause 349 was introduced by A 30 of Chief State Sanitary Insp	•	-					
350. Flat-fruit orlaya	Orlaya daucoides	Fruit (essential oil)					
(Clause 350 was introduced by 30 of Chief State S	Amendments No. 23, approved Sanitary Inspector of the RF	-					
351. Orthodon asaroniferum	Orthodon asaroniferum	Aerial part					
(Clause 351 was introduced by Amendments No. 23, approved by Resolution No. 30 of Chief State Sanitary Inspector of the RF dated 11.04.2011)							
352. Garden Parsley Petroselinum crispuma Fruit (essential oil)							
(Clause 352 was introduced by Amendments No. 23, approved by Resolution No. 30 of Chief State Sanitary Inspector of the RF dated 11.04.2011)							

(Section 1 as amended by Amendments and Additions No. 15, approved by Resolution No. 73 of Chief State Sanitary Inspector of the RF dated 08.12.2009)

- 2. Substances uncharacteristic of food, edible and medical plants.
- 3. Unnatural synthetic substances analogues of primary active elements of medical plants (not being the essential nutritive factors).
- 4. Antibiotics
- 5. Hormones.
- 6. Organs and tissues of animals, and their derived products which are specified risk materials for prion diseases (Transmissible Spongiform Encephalopathy):

Of bovine cattle:

- skull, apart from lower jaw bone, including brain, eyes and spinal cord of an animal of more than 12 months old;
- vertebral column, including tail part, spinous and transverse processes of cervical, thoracic and lumbar parts of the spinal column, median sacral crest and alas of the sacrum, including dorsal root ganglions of an animal of more than 30 months old:
- tonsils, intestine from duodenum through rectum and mesentery of animals of any age.
  - Of sheep (rams) and goats:
- skull, including brain, eyes, tonsils and spinal cord of an animal of more than 12 months old or having permanent incisors cut through gums;
- spleen and intestine of animals of any age

Products containing or consisting of materials from ruminant animals:

- mechanically deboned meat;
- gelatine (apart from gelatine produced from skin of ruminant animals);
- rendered fat from ruminant animals and derived products.

Objects of animal origin: Seven-spotted ladybird (Coccinella septempunctata L.), the whole body; Scorpion (Scorpiones L.), the whole body; Spanish fly (Lytta sp.), all species, the whole body.

When importing raw materials into the territory of the Russian Federation for production of food products and biologically active food additives produced with the use of raw materials of animal origin, it is necessary to take into consideration the epizootological situation with regard to Transmissible spongiform encephalopathy (including Bovine spongiform encephalopathy) in the country of the manufacturing company of such components.

(Section 6 as amended by Amendments and Additions No. 15, approved by Resolution No. 73 of Chief State Sanitary Inspector of the RF dated 08.12.2009)

- Human tissues and organs.
- 8. Representatives of genera and species of bacteria containing strains which may cause human diseases and may be gene vectors of antibiotic resistance, including:

- sporogenous aerobic and anaerobic microorganisms representatives of genera Bacillus (including B. polimyxa, B.cereus, B.megatherium, B.thuringiensis, B.coagulans (obsolete name - Lactobacillus coagulans), B.subtilis, B.licheniformis and other species) and Clostridium;
- microorganisms of genera Escherichia, Enterococcus, Corynebacterium spp.;
- microorganisms having hemolytic activity;
- viable yeast and yeastlike fungi, including representatives of genera Candida; actinomycetes, streptomyces;
- all genera and species of microscopic mold fungi;
- sporeless microorganisms derived from animal and bird organisms and uncharacteristic of normal protective human microflora, including representatives of genera Lactobacillus.

(Section 8 as amended by Amendments and Additions No. 15, approved by Resolution No. 73 of Chief State Sanitary Inspector of the RF dated 08.12.2009)

Plants and Their Derived Products the Usage of Which is Prohibited in Production of Single-

Component Biologically Active Food Additives:

mponer	it Biologically Active Food Additives:		
No.	Name of Plants	Name of Plants in Latin	Parts of Plants
1	2	3	4
1	Japanese angelica tree, Manchurian aralia	Arali elata (Miq.) Seem. = Arali mandshurica Rupr. et Maxim.	All parts
2	African Plum	Pygeum africanum	Bark
3	Valerian	Valeriana L.	All species, root and rootstock
4	Maidenhair Tree	Ginkgo biloba L.	Aerial part
5	Gymnema sylvestre	Gymnema sylvestre	All parts
6	Wild yam, Dioscorea villosa	Dioscorea villosa	Rootstock
7	Ginseng	Ginseng	All species, all parts
8	Devil's-club, planch	Oplopanax elatus Nakai = Echinopanax elatus Nakai	All parts
9	St. John's wort	Hypericum L.	All species, all parts
10	Butcher's broom	Ruscus aculeatus (Butcher 's Broom)	All parts
11	Yohimbe (Pausinystalia yohimbe)	Pausinystalia yohimbe (K. Schum.) Pierre ex Beile	All parts
12	Five flavor berry	Schisandra chinensis (Turcz.) Baill.	All parts
13	Muira puama	Muira puama (Liriosma jvata)	All parts
14	Tabebuia heptaphylla, Pau d'arco	Tabebuia heptaphylla	Bark
15	Roseroot, Golden Root	Rhodiola rosea L.	All parts
16	Damiana	Turnera Diffusa	All parts
17	Spiny eleuterococcus	Eleutherococcus senticosus (Rupr. et Maxim.) Maxim = Aconthopanax senticosus (Rupr. et Maxim.) Harms	All parts
18	Adam's needle	Yucca filamentosa	Leaves

(Section 9 as amended by Amendments and Additions No. 15, approved by Resolution No. 73 of Chief State Sanitary Inspector of the RF dated 08.12.2009)

Annex 6 to SanPiN 2.3.2.1078-01, approved by Resolution No. 36 of the Chief State Sanitary Inspector of the RF dated November 14, 2001

### PARASITOLOGIC SAFETY INDICES OF FISH, CRUSTACEANS, MOLLUSKS, AMPHIBIA, REPTILES AND THEIR DERIVED PRODUCTS <*>

# Table 1 Fresh-Water Fish and its Derived Products

I		Products Group	Pa	Parasitologic Indices and Permissible Levels of Content												
				Larva on the Claw												
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	1.	The family Cyprinidae	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/ a	n/a				n/a	
	2.	pickerel	-	-	-	-	n/a	-	-	-	n/a	n/a	-	-	n/a	-
	3.	perch								n/ a	n/a	n/a	-	-	-	-
		Salmon fishes	-	-	-	-	n/a	-	-	n/ a	-	n/a	n/a	-	-	
	5.	Cisco	-	-	-	-	-	-	-	-	-	n/a	-	-	-	-
	6.	Grayling	-	-	-	-	n/a	-	-		-	n/a	-	-	-	-
8		Codfishes Sturgeon	-	-	-	-	-	-	-	-	-	n/a	n/a	n/ a	-	-
	9.	Snakehead														n/ a
		Miller's- thumb													n/a n/a	-
		Catfish	,	,	,	,	,	,	,	,	,	,	,	,		-
		Minced fishes stated in Items 1-11		n/a	n/a	n/a	n/a	n/a	n/a	n/ a	n/a	n/a	n/a	n/ a	n/a	n/ a
	13.	Canned foods and preserves from the fish families stated in Items 1-11	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/ a	n/a	n/a	n/a	n/ a	n/a	n/ a

_	_
_	_
	-

Notes: 1) n/a - not allowed (Larva on the claw); 2) parasite larva:

1	2	3
3 - Opisthorchis	12 - Diphyllobothrium	13 - Anisakidae
4 - Clonorchis 5 - Pseudamphistomum 6 - Metagonimus 7 - Nanophyetus 8 - Echinochasmus 9 - Metorchis 10 - Rossicotrem 11 - Apophallus		14 - Contracaecum 15 - Dioctophyma 16 - Gnathostoma

#### Migratory Fish and its Derived Products

Index	Products Group	Parasitologic Indices and Permissible Levels of Content					
		Larva on the claw					
1	2	3	4	5	6	7	8
1.	Salmons	_	n/a	n/a	-	-	-
2.	Far East salmon	n/a	n/a	n/a	n/a	n/a	n/a
3.	Minced fishes stated in Item 1, Item 2	n/a	n/a n/a	n/a n/a	n/a	n/a	n/a
4.	Canned foods and preserves from fish families stated in Item 1, Item 2	n/a	n/a n/a	n/a n/a	n/a	n/a	n/a
5.	Fried, jellied, salted, marinated, smoked, dried fish of families stated in Item, 1 Item 2	n/a	n/a n/a	n/a n/a	n/a	n/a	n/a
6.	Caviar (gonads) of fishes stated in Items 1-2	-	n/a	n/a	П	-	-

Notes: 1) n/a - not allowed (Larva on the claw); 2) parasite larva:

Trematode	Cestode	Nematode	Proboscis Worms		
3 - Nanophyetus	4 - Diphyllobothrium	5 - Anisakidae	7 - Bolbosoma		
		6 - Contracaecum	8 - Corynosoma		

Index	Products Group		Parasitologic Indices and Permissible Levels of Content											
			Larva on the Claw											
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	Salt-water fish, including by game areas and families:													
1.	Barents	l s Sea	] E	I		I	l			l I		1 1	ļ	
1.1.	Salmon fishes migratory						n/a			n/a				
	Eperlans						n/a			n/a				
1.3. 1.4.	Herring Codfishes	_	_	n/a	_	_	n/a	_	- n/	n/a n/a	n/	n/	- n/	_
1.5.	Scorpaenid								a	n/a	a	a	a	
1.6.	ae Pleuronect idae	-	-	-	-	_	-	_	-	n/a	-	_	-	-
	North Atlar Eperlans	ntic		n/a			]			n/a			'   	
2.2.	Herring	-	_	n/a	-	_	_	-	-	n/a	-	n/a	-	-
2.3.	Codfishes Macrourida	-	_	n/a	_	-	n/a	_	-	n/a n/a	-	_	-	-
2.5.	e Merlucciid ae	-	-	-	-	-	-	-	-	n/a	-	-	-	-
2.6.	Scombridae	-	-	-	-	_	-	-	-	n/a	-	-	-	n/ a
	Scorpaenid ae	-	-	-	-	-	-	_	-	n/a	-	-	-	-
	Pleuronect idae			n/a	_	-	-	-	-	n/a	-	_	-	-
	South Atlar Merlucciid ae	Ì	1	-	-	-	-	_	-	n/a	-	-	-	n/ a
3.2.	Carangidae	_	_	_	_	_	_	_	-	n/a	-	-	-	-
3.3.	Cerura vinula	_	_	-	_	-	_	_	-	n/a	-	-	-	n/
	Baltic sea		I	I		1	l			ı I		1 1	I	ū
4.1.	Eperlans												n/a	
	Herring	-	-	-	-	-	-	-	-	n/a	-	-	n/a	-
4.4.	Codfishes Pleuronect idae	_		- n/a -	_	-		_	_	n/a n/a	_	-	-	-
5.	Black sea,	Sea Sea	of	Azor	V,	n Medit	ı terra	nean					ļ	
5.2.	Gobiidae Mugilidae	_	n/a n/a		n/a	n/a								
	Subantarct	ic,	ı	Anta	rcti	C				· '	,		, 1	,
	Codfishes											n/a n/a		
	Merlucciid ae									n/a	11/ a	II/a	11/a	11/ a

6.3.	Ophidiidae	_	_	_	-	-	-	-	-	n/a	_	_	_	-
6.4.	Notothenii dae						n/a			n/a	n/a	n/a	n/a	n/a
6.5.	Chaenichth yidae	-	-	-	-	-	n/a	-	-	n/a	n/a	n/a	n/a	n/a
7. 7.1.	Indian Ocea Carangidae	an			' ' 					n/a				
7.2.	Scombridae	-	-	-	-	-	-	-	-	n/a	-	-	-	-
7.3.	Nemipterid ae	-	-	-		-	_	-	-	n/a	-	-	-	_
8.	Pacific Oce										ļ 1 .	l	l 1 -	
8.1.	Salmon fishes	n/a	_	_	n/a	-	n/a	_	_	n/a	n/a	_	n/a	n/a
8.2.	Engraulida e	-	-	-	-	-	_	-	-	n/a	-	-	-	_
8.3. 8.4.	Herring Carangidae	-	-	-	-	-	- n/a	-	-	n/a n/a	- n/a	-	ı	_
8.5.	Hexagrammi									n/a	n/a	-	n/a	_
9	dae Pleuronect idae	-	-	-	-	-	-	n/a	-	n/a	-	-	n/a	-
7	Scorpaenid													,
ω ω	ae													n/a
$\infty$														n/a
8.9.	Berycidae													n/a
8.10.	Tunny (Scombrida e)													n/a
8.11.	Gadidae Minced fishs stated in Items 1-8	n/a	n/a	n/a	n/a		n/a	n/a	n/a n/a	n/a n/a		n/a n/a		- n/a
10.	foods and		n/a	n/a			n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	preserves from fish families stated in													
11.	Items 1-8 Fried, jellied, salted, marinated , smoked, dried fish of families stated in Items 1-8	n/a	n/a	n/a			n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
12.	Caviar of pollack,									n/a		n/a		
13.	cod Cod liver									n/a		n/a		
<u> </u>														

Notes: 1) n/a - not allowed (Larva on the claw);

2) parasite larva:

Trematode	Cestode	Nematode	Proboscis Worms
3- Nanophyetus	8- Diphyllobothrium	11- Anisakidae	14-Bolbosoma
4-Heterophyes	9-Diplogonoporus	12- Contracaecum	15- Corynosoma
5-Cryptocotyle	10- Pyramicocephalus	13- Pseudoterranova	
6- Rossicotrem			
7-Apophallus			

Table 4

## Crustaceans, Sea Mollusks, Amphibians, Reptiles and their Derived Products

Inde x	Products Group	Para	sitol	ogic		es and	d Perm	issi	ble Le	evels
				1			e Cla	'nĪ		
1	2	3	4	5	6	7	8	9	10	11
_	_		-			,				
1.	Crustaceans and	the	ir dei	rived	produ	cts				
1.1.	Lobsters from Far	n/a								
	East basins									
	(Russia, Korea									
	peninsula, CPR etc.), USA									
1.2.	Freshwater	n/a								
	shrimps from Far									
	East basins									
	(Russia, Korea									
	peninsula)									
1.3.	Freshwater crabs	n/a								
	(from basins of									
	Far East, Russia,									
	countries of									
	South-East Asia, Sri Lanka,									
	Central America,									
	Peru, Liberia,									
	Nigeria,									
	Cameroon, Mexico,									
	Philippines)									
1 4	Freshwater crabs	n/a								
	sauces (Item	11/ 0								
	1.3)									
	Sea mollusks and t	heir	deri	ved pi	oduct	S	•	•	•	•
	Calamaries	-	_	n/a	n/a	n/a	-	_	_	
	Octopus	-	_	n/a	-	n/a	_	-		-
	Scallops	-	_	_	_	_	_	-	n/a	_
	Maktra (Spisula) Oysters	_	-	_	_	-	-	_	n/a -	n/a
	Amphibians	_	n/a	_	_		n/a	n/a	-	11/ a
•	(frogs)		11/α			=	11/ (1	11/ 0	-	
4.	Reptiles	ı	I	1	I	ı	ı	1	I	I
4.1.	Snakes		n/a	-	-	-	_	-	_	-

4.2.	Tortoises									
4.2.1.	marine	_	_	_	_	_	_	_	n/a	_
4.2.2.	freshwater	_	_	_	_	_	_	n/a	_	-

Notes: 1) n/a - not allowed (Larva on the claw);
2) parasite larva:

trematode	cestode	Nematode
3-Paragonimus	4-Spirometra	5- Anisakidae
		6- Contracaecum
		7- Pseudoterranova
		8- Dioctophyme
		9-Gnathostoma
		10-Sulcascaris
		11- Echinocephalus

Annex 7 to SanPin 2.3.2.1078-01, approved by Resolution No. 36 of Chief State Sanitary Inspector of the RF as of November 14, 2001

#### FOOD ADDITIVES,

#### WHICH DO NOT NEGATIVELY AFFECT HUMAN HEALTH

#### WHEN USED FOR PRODUCTION OF

#### FOOD PRODUCTS

(as amended by Amendments and Additions No. 2, approved by Resolution No. 41 of Chief State Sanitary Inspector of the RF dated 15.04.2003)

Index	Name of Food Additives	Technological
	(including Latin Name)	Functions
1	2	3
E100	Curcumins (CURCUMINS)  (i) Curcumin (Curcumin)  Natural colouring agent from Curcuma longa and other species  (ii) Turmeric (Turmeric)  Turmeric is powder of curcuma rootstock	colouring agent
E101	Riboflavins (RIBOFLAVINS) (i) Riboflavin (Riboflavin) (ii) Sodium salt riboflavin 5-phosphate (Riboflavin 5-phosphate sodium)	colouring agent
E102	Tartrazine (TARTRAZINE)	colouring agent
E103	Alkanet, Alkanin (ALKANET)	colouring agent
E104	Quinoline yellow (QUINOLINE YELLOW)	colouring agent
E107	Yellow 2G(YELLOW 2G)	colouring agent
E110	Sunset Yellow FCF (SUNSET YELLOW FCF)	colouring agent

E120	Carmines (CARMINES)	colouring agent
E122	Azorubine, carmoisine(AZORUBINE)	colouring agent
E124	Ponceau 4R, Brilliant Scarlet 4R (PONCEAU 4R)	colouring agent

Import of food products produced with the use of food additive E128 into the territory of the Russian Federation, as well as production and circulation thereof in the territory of the Russian Federation is prohibited by Resolution No. 68 of Chief State Sanitary Inspector of the RF dated 03.09.2007.

E128	Red 2G (RED 2G)	colouring	agent
E129	Allura red AC (ALLURA RED AC)	colouring	agent
E131	Patent blue V (PATENT BLUE V)	colouring	agent
E132	Indigo carmine (INDIGOTINE)	colouring	agent
E133	Brilliant Blue FCF (BRILLIANT BLUE FCF)	colouring	agent
E140	Chlorophyll (CHLOROPHYLL)	colouring	agent
E141	Copper complexes of chlorophylls (COPPER CHLOROPHYLLS) (i) Chlorophyll copper complex (Chlorophyll copper complex) (ii) Chlorophyllin copper complex, sodium and potassium salts (Chlorophyllin copper complex, sodium and potassium salts)	colouring	agent
E142	Green S (GREEN S)	colouring	agent
E143	Fast green FCF (FAST GREEN FCF)	colouring	agent
E150a	Plain caramel (CARAMEL I - Plain)	colouring	agent
E150b	Caustic sulphite caramel, obtained through alkali- sulphite technology (CARAMEL II - Caustic sulphite process)	colouring	agent
E150c	Ammonia caramel, obtained through ammonia technology (CARAMEL III - Ammonia process)	colouring	agent
E150d	Sulphite ammonia caramel, obtained through ammonia - sulphite technology (CARAMEL IV - Ammonia-sulphite process)	colouring	agent
E151	Brilliant black PN (BRILLIANT BLACK PN)	colouring	agent
E152	Carbon black (CARBON BLACK (hydrocarbon))	colouring	agent
E153	Vegetable carbon (VEGETABLE CARBON)	colouring	agent
E155	Brown HT (BROWN HT)	colouring	agent

E160a	Carotenes (CAROTENES)  (i) beta - Carotene synthetic (Beta - carotene synthetic)  (ii) Natural carotenes extracts (NATURAL EXTRACTS)	colouring agent
E160b	Annato extracts (ANNATO EXTRACTS)	colouring agent
E160c	Paprika oleoresins (PAPRIKA OLEORESINS)	colouring agent
E160d	Lycopene (LYCOPENE)	colouring agent
E160e	beta - apo carotenal (BETA - APO - CAROTENAL)	colouring agent
E160f	beta-Apo-8-carotenoic acid methyl or ethyl ester (BETA-APO-8'-CAROTENOIC ACID, METHYL OR ETHYL ESTER)	colouring agent
E161a	Flavoxanthin (FLAVOXANTHIN)	colouring agent
E161b	Lutein(LUTEIN)	colouring agent
E161c	Kryptoxanthin (KRYPTOXANTHIN)	colouring agent
E161d	Rubixanthin (RUBIXANTHIN)	colouring agent
E161e	Violoxanthin (VIOLOXANTHIN)	colouring agent
E161f	Rhodoxanthin (RHODOXANTHIN)	colouring agent
E161g	Canthaxanthin (CANTHAXANTHIN)	colouring agent
E162	Beetroot red (BEET RED)	colouring agent
E163	Anthocyanins (ANTHOCYANIN)  (i) Anthocyanins (Anthocyanins)  (ii) Grape skin extract  (Grape skin extract)  (iii) Blackcurrant extract (Blackcurrant extract)	colouring agent
E170	Calcium carbonates (CALCIUM CARBONATES) (i) Calcium carbonate (Calcium carbonate) (ii) Calcium hydrogen carbonate (Calcium hydrogen carbonate)	surface colouring agent, anti-caking and anti-clumping additive, stabilizer
E171	Titanium dioxide (TITANIUM DIOXIDE)	colouring agent
E172	<pre>Iron oxides (IRON OXIDES) (i) iron oxide (+2, +3), black (Iron oxide, black) (ii) iron oxide (+3), red (Iron oxide, red) (iii) Iron oxide (+3), yellow (Iron oxide, yellow)</pre>	colouring agents
E174	Silver (SILVER)	colouring agent
L	<u>l</u>	

E175	Gold (GOLD)	colouring agent	
E181	Tannins, food grade (TANNINS, FOOD GRADE)	colouring agent, emulsifier, stabilizer	
E182	Orcein, Orchil (ORCHIL)	colouring agent	
E200	Sorbic acid (SORBIC ACID)	preservative	
E201	Sodium sorbate (SODIUM SORBATE)	preservative	
E202	Potassium sorbate (POTASSIUM SORBATE)	preservative	
E203	Calcium sorbate (CALCIUM SORBATE)	preservative	
E209	Heptyl p-hydroxybenzoate (HEPTYL p- HYDROXYBENZOATE)	preservative	
E210	Benzoic acid (BENZOIC ACID)	preservative	
E211	Sodium benzoate (SODIUM BENZOATE)	preservative	
E212	Potassium benzoate (POTASSIUM BENZOATE)	preservative	
E213	Calcium benzoate (CALCIUM BENZOATE)	preservative	
E214	Ethylparaben (ETHYL p-HYDROXYBENZOATE)	preservative	
E215	Sodium ethyl p-hydroxybenzoate (SODIUM ETHYL p-HYDROXYBENZOATE)	Mpreservative	

Import of food products produced with the use of food additive E 216 (Propyl phydroxybenzoate) into the territory of the Russian Federation is prohibited. Moreover, the use of this additive in production of food products is prohibited from March 1, 2005 (Resolution No.1 of Chief State Sanitary Inspector of the RF dated 18.01.2005).

E216	Propylparaben	(PROPYL p-HYDROXYBENZOAT	E) preservative	

Import of food products produced with the use of food additive E 217 (Propyl phydroxybenzoate, sodium salt) into the territory of the Russian Federation is prohibited. Moreover, the use of this additive in production of food products is prohibited from March 1, 2005. (Resolution No.1 of Chief State Sanitary Inspector of the RF dated 18.01.2005).

E217	Sodium propil p-hydroxybenzoate (SODIUM PROPIL p-HYDROXYBENZOATE)	preservative
E218	Methylparaben(METHYL p-HYDROXYBENZOATE)	preservative
E219	Sodium methyl p-hydroxybenzoate (SODIUM METHYL p-HYDROXYBENZOATE)	preservative
E220	Sulphur dioxide (SULPHUR DIOXIDE)	preservative, antioxidant

E221	Sodium sulphite (SODIUM SULPHITE)	preservative, antioxidant
E222	Sodium bisulphite (SODIUM HYDROGEN SULPHITE)	preservative, antioxidant
E223	Sodium metabisulphite (SODIUM METABISULPHITE)	preservative, antioxidant, bleaching agent
E224	Potassium metabisulphite (POTASSIUM METABISULPHIT)	preservative, antioxidant
E225	Potassium sulphite (POTASSIUM SULPHITE)	preservative, antioxidant
E226	Calcium sulphite (CALCIUM SULPHITE)	preservative, antioxidant
E227	Calcium hydrogen sulphite (CALCIUM HYDROGEN SULPHITE)	preservative, antioxidant
E228	Potassum hydrogen (bisulphite) sulphite (POTASSIUM BISULPHITE)	preservative, antioxidant
E230	Diphenyl (DIPHENYL)	preservative
E231	orto-phenylphenol (ORTO-PHENYLPHENOL)	preservative
E232	Sodium o-phenylphenol (SODIUM O- PHENYLPHENOL)	preservative
E234	Nisin (NISIN)	preservative
E235	Pimaricin, Natamycin (PIMARICIN, NATAMYCIN)	preservative
E236	Formic acid (FORMIC ACID)	preservative
E237	Sodium formate (SODIUM FORMATE)	preservative
E238	Calcium formate (CALCIUM FORMATE)	preservative
E239	Hexamine (HEXAMETHYLENE TETRAMINE)	preservative
E241	Gum guaicum (GUM GUAICUM)	preservative
E242	Dimethyl dicarbonate (DIMETHYL DICARBONATE)	preservative
E249	Potassium nitrite (POTASSIUM NITRITE)	preservative, colour retention agent
E250	Sodium nitrite (SODIUM NITRITE)	preservative, colour retention agent
E251	Sodium nitrate (SODIUM NITRATE)	preservative, colour retention agent
E252	Potassium nitrate (POTASSIUM NITRATE)	preservative, colour retention agent
E260	Acetic acid glacial (ACETIC ACID GLACIAL)	preservative, acidity regulator

E261	Potassium acetates (POTASSIUM ACETATES)	preservative,
	(i) Potassium acetate (POTASSIUM ACETATE)	acidity regulator
	(ii) Potassium diacetate (Potassium	
	diacetate)	
E262	Sodium acetates (SODIUM ACETATES)	preservative,
	(i) Sodium acetate (Sodium acetate)	acidity regulator
	(ii) Sodium diacetate (Sodium diacetate)	
E263	Calcium acetate (CALCIUM ACETATES)	preservative,
		stabilizer,
		acidity regulator
E264	Ammonium acetate (AMMONIUM ACETATE)	acidity regulator
E265	Dehydroacetic acid (DEHYDROACETIC ACID)	preservative
E266	Sodium dehydroacetate (SODIUM	preservative
	DEHYDROACETATE)	
E270	Lactic acid, L-, D и DL- (LACTIC ACID, L-	acidity regulator
	, D- and DL-)	
E280	Propionic acid (PROPIONIC ACID)	preservative
E281	Sodium propionate (SODIUM PROPIONATE)	preservative
E282	Calcium propionate (CALCIUM PROPIONATE)	preservative
E283	Potassium propionate (POTASSIUM	preservative
	PROPIONATE)	
E290	Carbon dioxide (CARBON DIOXIDE)	drinks saturating
		gas
E296	Malic acid (MALIC ACID, DL-)	acidity regulator
E297	Fumaric acid (FUMARIC ACID)	acidity regulator
E300	Ascorbic acid, L- (ASCORBIC ASID, L-)	antioxidant
E301	Sodium ascorbate (SODIUM ASCORBATE)	antioxidant
E302	Calcium ascorbate (CALCIUM ASCORBATE)	antioxidant
E303	Potassium ascorbate (POTASSIUM ASCORBATE)	
E304	Ascorbyl palmitate (ASCORBYL PALMITATE)	antioxidant

	I	
E305	Ascorbyl stearate (ASCORBYL STEARATE)	antioxidant
E306	Mixed tocopherols concentrate (MIXED TOCOPHEROLS CONCENTRATE)	antioxidant
E307	Alpha tocopherol (ALPHA - TOCOPHEROL)	antioxidant
E308	Synthetic gamma-tocopherol (SYNTHETIC GAMMA - TOCOPHEROL)	antioxidant
E309	Synthetic delta-tocopherol (SYNTHETIC DELTA - TOCOPHEROL)	antioxidant
E310	Propyl gallate (PROPYL GALLATE)	antioxidant
E311	Octyl gallate (OCTYL GALLATE)	antioxidant
E312	Dodecyl gallate (DODECYL GALLATE)	antioxidant
E314	Guaiac resin (GUAIAC RESIN)	antioxidant
E315	Isoascorbic (erythorbic) acid (ISOASCORBIC ACID, ERYTHORBIC ACID)	antioxidant
E316	Sodium isoascorbate (SODIUM ISOASCORBATE)	antioxidant
E317	Potassium isoascorbate (POTASSIUM ISOASCORBATE)	antioxidant
E318	Calcium isoascorbate (CALCIUM ISOASCORBATE)	antioxidant
E319	tertiary Butylhydroquinone (TERTIARY BUTYLHYDROQUINONE)	antioxidant
E320	Butylated hydroxyanisole (BUTYLATED HYDROXYANISOLE)	antioxidant
E321	Butylated hydroxytoluene, Ionol (BUTYLATED HYDROXYTOLUENE)	antioxidant
E322	Lecithins, phosphatides (LECITHINS)	antioxidant, emulsifier
E323	Anoxomer (ANOXOMER)	antioxidant
E325	Sodium lactate (SODIUM LACTATE)	<pre>antioxidant synergist, humectant, filling agent</pre>
E326	Potassium lactate (POTASSIUM LACTATE)	antioxidant synergist, acidity regulator
E327	Calcium lactate (CALCIUM LACTATE)	acidity regulator, flour and bread improving agent
E328	Ammonium lactate (AMMONIUM LACTATE)	acidity regulator,

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		flour and bread
		improving agent
E329	Magnesium lactate, DL- (MAGNESIUM	acidity regulator,
	LACTATE, DL-)	flour and bread
		improving agent
E330	Citric acid (CITRIC ACID)	acidity regulator,
		antioxidant,
		sequestrant
E331	Sodium citrates (SODIUM CITRATES)	acidity regulator,
	(i) Disodium monohydrogen citrate	emulsifier,
	(Disodium monohydrogen citrate)	stabilizer,
	(ii) Sodium dihydrogen citrate (Sodium	sequestrant
	dihydrogen citrate)	
	(iii) Trisodium citrate (Trisodium	
	citrate)	
E332	Potasium citrates (POTASSIUM CITRATES)	acidity
	(i) Potassium dihydrogen citrate	regulator, stabiliz
	(Potassium dihydrogen citrate)	er,
	(ii) Tripotassium citrate (Tripotassium	sequestrant
H222	citrate)	
E333	Calcium citrates (CALCIUM CITRATES)	acidity regulator,
		firming agent,
E334		sequestrant
E334	Tartaric acid, L(+)- (TARTARIC ACID,	acidity regulator,
	L(+)-)	antioxidant
		synergist,
E335	Sodium tartrates (SODIUM TARTRATES)	sequestrant
E000	(i) Monosodium tartrate (Monosodium	stabilizer,
	tartrate)	sequestrant
	(ii) Disodium tartrate (Disodium	
	tartrate)	
E336	Potassium tartrates (POTASSIUM TARTRATES)	stabilizer,
2000	(i) Monopotassium tartrate (Monopotassium	,
	tartrate)	sequescrane
	(ii) Dipotassium tartrate (Dipotassium	
	tartrate)	
E337	Potassium sodium tartrate (POTASSIUM	stabilizer,
	SODIUM TARTRATE)	sequestrant
E338	Orthophosphoric acid (ORTHOPHOSPHORIC	acidity regulator,
	ACID)	antioxidant
		synergist
E339	Sodium phosphates (SODIUM PHOSPHATES)	acidity regulator,
		emulsifier,
		texturator,
		humectant,
		stabilizer,
		sequestrant

	(i) monosodium orthophosphate (Monosodium orthophosphate) (ii) disodium orthophosphate (Disodium orthophosphate) (iii) trisodium orthophosphate (Trisodium orthophosphate) Potassium phosphates (POTASSIUM PHOSPHATES) (i) monopotassium orthophosphate (Monopotassium orthophosphate) (ii) dipotassium orthophosphate (Dipotassium orthophosphate) (iii) tripotassium orthophosphate) (iiii) tripotassium orthophosphate (Tripotassium orthophosphate)	acidity regulator, emulsifier, humectant, stabilizer, sequestrant
E341	Calcium phosphates (CALCIUM PHOSPHATES) (i) monocalcium orthophosphate (Monocalcium orthophosphate) (ii) dicalcium orthophosphate (Dicalcium orthophosphate) (iii) tricalcium orthophosphate (Tricalcium orthophosphate)	acidity regulator, flour and bread improving agent, stabilizer, firming agent, texturator, leavening agent, anti-caking and anti-clumping additive humectant
E342	Ammonium phosphates (AMMONIUM PHOSPHATES)  (i) monoammonium orthophosphate (Monoammonium orthophosphate)  (ii) diammonium orthophosphate (Diammonium orthophosphate)	acidity regulator, flour and bread improving agent
E343	Magnesium phosphates (MAGNESIUM PHOSPHATES) (i) monomagnesium orthophosphate (Monomagnesium orthophosphate) (ii) dimagnesium orthophosphate (Dimagnesium orthophosphate) (iii) trimagnesium orthophosphate (Trimagnesium orthophosphate)	acidity regulator, anti-caking and anti-clumping additive
E345	Magnesium citrate (MAGNESIUM CITRATE)	acidity regulator
E349	Ammonium malate (AMMONIUM MALATE)	acidity regulator
E350	Sodium malates (SODIUM MALATES) (i) Sodium hydrogen malate (Sodium hydrogen malate) (ii) Sodium malate (Sodium malate)	acidity regulator, humectant
E351	Potassium malates (POTASSIUM MALATES) (i) Potassium hydrogen malate (Sodium hydrogen malate) (ii) Potassium malate (POTASSIUM MALATE)	acidity regulator

E352	Calcium malates (CALCIUM MALATES)	acidity regulator
	(i) Calcium hydrogen malate (Calcium	
	hydrogen malate)	
	(ii) Calcium malate (Calcium malate)	
E353	Metatartaric acid (METATARTARIC ACID)	acidity regulator
E354	Calcium tartrate (CALCIUM TARTRATE)	acidity regulator
E355	Adipic acid (ADIPIC ACID)	acidity regulator
E356	Sodium adipates (SODIUM ADIPATES)	acidity regulator
E357	Potassium adipates (POTASSIUM ADIPATES)	acidity regulator
E359	Ammonium adipates (AMMONIUM ADIPATES)	acidity regulator
E363	Succinic acid (SUCCINIC ACID)	acidity regulator
E365	Sodium fumarates (SODIUM FUMARATES)	acidity regulator
E366	Potassium fumarates (POTASSIUM FUMARATES)	acidity regulator
E367	Calcium fumarates (CALCIUM FUMARATES)	acidity regulator
E368	Ammonium fumarates (AMMONIUM FUMARATES)	acidity regulator
E375	Nicotinic acid (NICOTINIC ACID)	colour stabilizer
E380	Ammonium citrates (AMMONIUM CITRATES)	acidity regulator
E381	Ferric ammonium citrates (FERRIC AMMONIUM	acidity regulator
	CITRATES)	
E383	Calcium glycerophosphate (CALCIUM	thickening agent,
	GLYCEROPHOSPHATE)	stabilizer
E384	Isopropyl citrates (ISOPROPYL CITRATES)	anti-caking and
		anti-clumping
		additive
E385	Calcium disodium ethylene diamine-tetra-	antioxidant,
	acetate (CALCIUM DISODIUM ETHYLENE	preservative,
	DIAMINE-TETRA-ACETATE)	sequestrant
E386	Disodium ethylene diamine-tetra-	antioxidant
	acetate(DISODIUM ETHYLENE DIAMINE-TETRA-	
	ACETATE)	preservative,
		sequestrant

E387	Oxystearin (OXYSTEARIN)	antioxidant,
		sequestrant
E391	Phytic acid (PHYTIC ACID)	antioxidant
E400	Alginic acid (ALGINIC ACID)	thickening agent,
		stabilizer
E401	Sodium alginate (SODIUM ALGINATE)	thickening agent,
		stabilizer
E402	Potassium alginate (POTASSIUM ALGINATE)	thickening agent,
		stabilizer
E403	Ammonium alginate (AMMONIUM ALGINATE)	thickening agent,
		stabilizer
E404	Calcium alginate (CALCIUM ALGINATE)	thickening agent,
		stabilizer,
		anti-foaming agent
E405	Propylene glycol alginate (PROPYLENE	thickening agent,
	GLYCOL ALGINATE)	emulsifier
E406	Agar (AGAR)	thickening agent,
		gelling agent,
		stabilizer
E407	Carrageenan and its Na, K, NH4 salts	thickening agent,
- *	(includes furcellaran) (CARRAGEENAN AND	gelling agents,
	ITS Na, K, NH4 SALTS (INCLUDES	stabilizer
	FURCELLARAN))	5645111261
E407a	Carrageenan pes - processed euchema	thickening agent,
	seaweed (CARRAGEENAN PES- PROCESSED	gelling agents,
	EUCHEMA SEAWEED)	stabilizer
E409	Arabinogalactan (ARABINOGALACTAN)	thickening agent,
	(11111211100112110111111)	gelling agents,
		stabilizer
E410	Carob bean gum (CAROB BEAN GUM)	thickening agent,
	Carob Dean gum (CANOD DEAN GOT)	stabilizer
E411	Oat gum (OAT GUM)	thickening agent,
	out gam (OAI GOI)	stabilizer
E412	Guar gum (GUAR GUM)	thickening agent,
n-117	Guar guil (GOAN GOPI)	stabilizer
E413	Tragacanth gum (TRAGACANTH GUM)	
T-17	Tragacanti gum (INAGACANTA GOM)	thickening agent, stabilizer,
		emulsifier
r/11/	Cum arabic	
E414	Gum arabic	thickening agent,
	(GUM ARABIC (ACACIA GUM))	stabilizer
E415	Xantan gum (XANTAN GUM)	thickening agent,
		stabilizer
E416	Karaya gum (KARAYA GUM)	thickening agent,
		stabilizer
E417	Tara gum (TARA GUM)	thickening agent,
	· ·	stabilizer

E418	Gellan gum (GELLAN GUM)	thiskering egent
E410	Gerran Gum (GERRAN GUM)	thickening agent,
		stabilizer,
E419	Gum ghatti (GUM GHATTI)	gelling agent
E419	Gum Gnatti (GUM GHATTI)	thickening agent,
		stabilizer,
T 4 0 0	0 1'- 1 1 1'- 1 (CORRITOR AND	gelling agent
E420	Sorbitol and sorbitol syrup (SORBITOL AND	
	SORBITOL SYRUP)	humectant,
		sequestrant,
		texturator,
T 4 O 1	1 (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2) (1/2	emulsifier
E421	Mannitol (MANNITOL)	sweetener, anti-
		caking and anti-
		clumping additive
E422	Glycerol (GLYCEROL)	humectant,
		thickening agent
E425	Konjac (Konjac flour) (KONJAC (KONJAC	thickening agent
	FLOOUR)) (i) Konjac gum (KONJAC GUM) (II)	
	Konjac glucomannane (KONJAC GLUCOMANNANE)	
	oduced by Amendments and Additions No. 2, ap	
	ution No. 41 of Chief State Sanitary Inspect	or of the RF dated
15.04	.2003)	
E430	Delversethilene (0) steemete	emulsifier
E430	Polyoxyethylene (8) stearate	emuisillei
E431	(POLYOXYETHYLENE (8) STEARATE)	emulsifier
E431	Polyoxyethylene (40) stearate	emuisillei
E432	(POLYOXYETHYLENE (40) STEARATE)	emulsifier
E432	Polyoxyethylene (20) sorbitan	emulsifier
	monolaurate, Tween 20	
	(POLYOXYETHYLENE (20) SORBITAN	
- 400	MONOLAURATE)	2 1 6 1
E433	Polyoxyethylene (20) sorbitan monooleate,	emulsifier
	Tween 80	
	(POLYOXYETHYLENE (20) SORBITAN	
	MONOOLEATE)	
E434	Polyoxyethylene (20) sorbitan	emulsifier
		Cilidibilici
l	monopalmitate, Tween 40	Cindibilici
l	(POLYOXYETHYLENE (20) SORBITAN	Character
	(POLYOXYETHYLENE (20) SORBITAN MONOPALMITATE)	
E435	(POLYOXYETHYLENE (20) SORBITAN MONOPALMITATE) Polyoxyethylene (20) sorbitan	emulsifier
E435	(POLYOXYETHYLENE (20) SORBITAN MONOPALMITATE)	
E435	(POLYOXYETHYLENE (20) SORBITAN MONOPALMITATE) Polyoxyethylene (20) sorbitan	
E435	(POLYOXYETHYLENE (20) SORBITAN MONOPALMITATE) Polyoxyethylene (20) sorbitan monostearate, Tween 60	
E435	(POLYOXYETHYLENE (20) SORBITAN MONOPALMITATE)  Polyoxyethylene (20) sorbitan monostearate, Tween 60 (POLYOXYETHYLENE (20) SORBITAN MONOSTEARATE)	emulsifier
	(POLYOXYETHYLENE (20) SORBITAN MONOPALMITATE)  Polyoxyethylene (20) sorbitan monostearate, Tween 60 (POLYOXYETHYLENE (20) SORBITAN	emulsifier

TRISTEARATE)

E440	Pectins (PECTINS)	thickening agent, stabilizer,
		gelling agent
E442	Ammonium salts of phosphatidic acid	emulsifier
	(AMMONIUN SALTS OF PHOSPHATIDIC ACID)	
E444	Sucrose acetate isobutirate (SUCROSE ACETATE ISOBUTIRAT)	emulsifier, stabilizer
E445	Glycerol esters of wood resin (GLYCEROL ESTERS OF WOOD RESIN)	emulsifier, stabilizer
E446	Succistearin (SUCCISTEARIN)	emulsifier
E450	Diphosphates (DIPHOSPHATES)	emulsifier,
	(i) Disodium diphosphate (Disodium	stabilizer,
	diphosphate)	acidity regulator,
	(ii) Trisodium diphosphate (Trisodium	leavening agent,
	diphosphate)	sequestrant,
	(iii) Tetrasodium diphosphate	humectant
	(Tetrasodium diphosphate)	Trame o carre
	(iv) Dipotassium diphosphate (Dipotassium	
	diphosphate)	
	(v) Tetrapotassium diphosphate	
	(Tetrapotassium diphosphate)	
	(vi) Dicalcium diphosphate (Dicalcium	
	diphosphate)	
	(vii) Calcium dihydrogen diphosphate	
	(Calcium dihydrogen diphosphate)	
	(viii) Dimagnesium diphosphate	
	(Dimagnesium diphosphate)	
E451	Triphosphates (TRIPHOSPHATES)	sequestrant, acidity regulator,
	(i) Pentasodium triphosphate (Pentasodium	texturator
	triphosphate)	
	(ii) Pentapotassium triphosphate	
	(Pentapotassium triphosphate)	
E452	Polyphosphates (POLYPHOSPHATES)	emulsifier,
	(i) Sodium polyphosphate (Sodium	stabilizer,
	polyphosphate)	sequestrant,
	(ii) Potassium polyphosphate (Potassium	texturator,
	polyphosphate)	humectant
	(iii) Sodium calcium polyphosphate	
	(Sodium calcium polyphosphate)	
	(iv) Calcium polyphosphates (Calcium	
	polyphosphates)	
	(v) Ammonium polyphosphates (Ammonium	
- 4 5 0	polyphosphates)	
E459	beta - Cyclodexrin (BETA - CYCLODEXTRIN)	stabilizer,
		binder
E460	0.11.1 (000.11.000.)	1.161
E460	Cellulose (CELLULOSE)	emulsifier,
	(i) Microcrystalline cellulose	anti-caking and anti-clumping
	(Microcrystalline cellulose)	additive
	(ii) Powdered cellulose (Powdered	
E461	<pre>(ii) Powdered cellulose (Powdered cellulose)</pre>	texturator
E461	(ii) Powdered cellulose (Powdered	texturator thickening agent, emulsifier, stabilizer

E462	Ethyl cellulose (ETHYL CELLULOSE)	filling agent, binder
E463	Hydroxypropyl cellulose (HYDROXYPROPYL CELLULOSE)	thickening agent, emulsifier, stabilizer
E464	Hydroxypropyl methyl cellulose (HYDROXYPROPYL METHYL CELLULOSE)	thickening agent emulsifier, stabilizer
E465	Methyl ethyl cellulose (METHYL ETHYL CELLULOSE)	thickening agen emulsifier, stabilizer, foaming agent
E466	Sodium carboxymethyl cellulose (SODIUM CARBOXYMETHYL CELLULOSE)	thickening agent stabilizer
E467	Ethyl hydroxyethyl cellulose (ETHYL HYDROXYETHYL CELLULOSE)	emulsifier, thickening agent stabilizer
E468	Croscaramellose (CROSCARAMELLOSE)	stabilizer, binder
E469	Enzymically hydrolysed carboxymethylcellulose	thickening agent stabilizer
E470	Salts of fatty acids, Al, Ca, Na, Mg, K and NH4 salts(SALTS OF FATTY ACIDS (with base Al, Ca, Na, Mg, K and NH4))	
E471	Mono- and diglycerides of fatty acids (MONO- AND DIGLYCERIDES OF FATTY ACIDS)	emulsifier, stabilizer
E472a	Acetic and fatty acid esters of glycerol	emulsifier, stabilizer, sequestrant
E472b	Lactic and fatty acid esters of glycerol (LACTIC AND FATTY ACID ESTERS OF GLYCEROL)	emulsifier, stabilizer, sequestrant
E472c	Citric and fatty acid esters of glycerol (CITRIC AND FATTY ACID ESTERS OF GLYCEROL)	emulsifier, stabilizer, sequestrant
E472d	Tartaric acid esters of mono- and diglycerides of fatty acids (TARTARIC ACID ESTERS OF MONO- AND DIGLYCERIDES OF FATTY ACIDS)	emulsifier, stabilizer, sequestrant
E472e	Diacetyltartaric and fatty acid esters of glycerol (DIACETYLTARTARIC AND FATTY ACID ESTERS OF GLYCEROL)	stabilizer,

E472f	Mixed tartaric, acetic and fatty acid esters of glycerol (MIXED TARTARIC, ACETIC AND FATTY ACID ESTERS OF GLYCEROL)	_
E472g	Succinylated monoglycerides (SUCCINYLATED MONOGLYCERIDES)	emulsifier, stabilizer, sequestrant
E473	Sucrose esters of fatty acids (SUCROSE ESTERS OF FATTY ACIDS)	emulsifier
E474	Sucroglycerides (SUCROGLYCERIDES)	emulsifier
E475	Polyglycerol esters of fatty acids (POLYGLYCEROL ESTERS OF FATTY ACIDS)	emulsifier
E476	Polyglycerol esters of interesterified ricinoleic acid (POLYGLYCEROL ESTERS OF INTERESTERIFIED RICINOLEIC ACID)	
E477	Propylene glycol esters of fatty acids (PROPYLENE GLYCOL ESTERS OF FATTY ACIDS)	emulsifier
E478	Lactylated fatty acid esters of glycerol and propylene glycol (LACTYLATED FATTY ACID ESTERS OF GLYCEROL AND PROPYLENE GLYCOL)	
E479	Thermally oxidized soya bean oil with mono- and di-glycerides of fatty acids (THERMALLY OXIDIZED SOYA BEAN OIL WITH MONO- AND DI-GLYCERIDES OF FATTY ACIDS)	emulsifier
E480	Dioctyl sodium sulphosuccinate (DIOCTYL SODIUM SULPHOSUCCINATE)	emulsifier, wetting agent
E481	Sodium lactylates (SODIUM LACTYLATES) (i) Sodium stearoyl lactylate (SODIUM STEAROYL LACTYLATE) (ii) Sodium oleyl lactylate (SODIUM OLEYL LACTYLATE)	emulsifier, stabilizer
E482	Calcium lactylates (CALCIUM LACTYLATES)	emulsifier, stabilizer
E483	Stearyl tartrate (STEARYL TARTRATE)	flour and bread improving agent
E484	Stearyl citrate(STEARYL CITRATE)	emulsifier, sequestrant
E491	Sorbitan monostearate, SPAN 60 (SORBITAN MONOSTEARATE)	emulsifier
E492	Sorbitan tristearate (SORBITAN TRISTEARATE)	emulsifier
E493	Sorbitan monolaurate, SPAN 20 (SORBITAN MONOLAURATE)	emulsifier
E494	Sorbitan monooleate, SPAN 80 (SORBITAN MONOOLEATE)	emulsifier

E495	Sorbitan monopalmitate, SPAN 40 (SORBITAN MONOPALMITATE)	emulsifier
E496	Sorbitan trioleat, SPAN 85 (SORBITAN TRIOLEAT)	stabilizer, emulsifier
E500	Sodium carbonates (SODIUM CARBONATES)  (i) Sodium carbonate (Sodium carbonate)  (ii) Sodium hydrogen carbonate (Sodium hydrogen carbonate)  (iii) Sodium sesquicarbonate  (Sodium sesquicarbonate)	acidity regulator, leavening agent, anti-caking and anti-clumping additive
E501	Potassium carbonates (POTASSIUM CARBONATES) (i) Potassium carbonate (Potassium carbonate) (ii) Potassium hydrogen carbonate (Potassium hydrogen carbonate)	acidity regulator, stabilizer
E503	Ammonium carbonates (AMMONIUM CARBONATES) (i) Ammonium carbonate (Ammonium carbonate) (ii) Ammonium hydrogen carbonate (Ammonium hydrogen carbonate)	acidity regulator, leavening agent
E504	Magnesium carbonates (MAGNESIUM CARBONATES) (i) Magnesium carbonate (Magnesium carbonate) (ii) Magnesium hydrogen carbonate (Magnesium hydrogen carbonate)	acidity regulator, anti-caking and anti-clumping additive, colour stabilizer
E505	Ferrous carbonate (FERROUS CARBONATE)	acidity regulator
E507	Hydrochloric acid (HYDROCHLORIC ACID)	acidity regulator
E508	Potassium chloride (POTASSIUM CHLORIDE)	gelling agent
E509	Calcium chloride (CALCIUM CHLORIDE)	firming agent
E510	Ammonium chloride (AMMONIUM CHLORIDE)	flour and bread improving agent
E511	Magnesium chloride (MAGNESIUM CHLORIDE)	firming agent
E513	Sulphuric acid (SULPHURIC ACID)	acidity regulator
E514	Sodium sulphates (SODIUM SULPHATES)	acidity regulator
E515	Potassium sulphates (POTASSIUM SULPHATES)	acidity regulator
E516	Calcium sulphate (CALCIUM SULPHATES)	flour and bread improving agent, sequestrant, firming agent

E517	,	flour and bread improving agent, stabilizer
E518	Magnesium sulphates (MAGNESIUM SULPHATES)	firming agent
E519	Cupric sulphate (CUPRIC SULPHATE)	colour retention agent, preservative
E520	Aluminium sulphate (ALUMINIUM SULPHATE)	firming agent
E521	Aluminium sodium sulphate, sodium alum (ALUMINIUM SODIUM SULPHATE)	firming agent
E522	Aluminium potassium sulphate, potassium alum (ALUMINIUM POTASSIUM SULPHATE)	acidity regulator, stabilizer
E523	Aluminium ammonium sulphate, ammonium alum (ALUMINIUM AMMONIUM SULPHATE)	stabilizer, firming agent
E524	Sodium hydroxide (SODIUM HYDROXIDE)	acidity regulator
E525	Potassium hydroxide (POTASSIUM HYDROXIDE)	acidity regulator
E526	Calcium hydroxide (CALCIUM HYDROXIDE)	acidity regulator, firming agent
E527	Ammonium hydroxide (AMMONIUM HYDROXIDE)	acidity regulator
E528	Magnesium hydroxide (MAGNESIUM HYDROXIDE)	acidity regulator, colour stabilizer
E529	Calcium oxide (CALCIUM OXIDE)	acidity regulator, flour and bread improving agent
E530	Magnesium oxide (MAGNESIUM OXIDE)	anti-caking and anti-clumping additive
E535	Sodium ferrocyanide (SODIUM FERROCYANIDE)	anti-caking and anti-clumping additive
E536	Potassium ferrocyanide (POTASSIUM FERROCYANIDE)	anti-caking and anti-clumping additive

E538	C-1-i fi-l- (CDICTIM	
F330	Calcium ferrocyanide (CALCIUM	anti-caking and
	FERROCYANIDE)	anti-clumping
		additive
E539	Sodium thiosulphate (SODIUM THIOSULPHATE)	antioxidant,
		sequestrant
E541	Sodium aluminium phosphate (SODIUM	acidity regulator,
	ALUMINIUM PHOSPHATE)	
	(i) Acidis (ACIDIS)	emulsifier
	(ii) Basic 8 (BASIC)	
E542	Bone phosphate (Calcium phosphate)	emulsifier,
	(BONE PHOSPHATE (essentiale Calcium	anti-caking and
	phosphate, tribasic))	anti-clumping
		additive,
		,
		humectant
E550	Sodium silicates (SODIUM SILICATES)	anti-caking and
1000	(i) Sodium silicate (Sodium silicate)	anti-clumping
	(ii) Sodium metasilicate (Sodium	additive
	metasilicate)	addicive
E551	Silicon dioxide amorphous (SILICON	anti-caking and
EJJI	DIOXIDE AMORPHOUS)	
	DIOXIDE AMORPHOUS)	anti-clumping
E552	Calcium silicate (CALCIUM SILICATE)	additive
E552	Calcium silicate (CALCIUM SILICATE)	anti-caking and
		anti-clumping
		additive
E553	Magnesium silicates (MAGNESIUM SILICATES)	anti-caking and
	(i) Magnesium silicate (Magnesium	anti-clumping
	silicate)	additive, powder -
	(ii) Magnesium trisilicate (Magnesium	carrier
	trisilicate)	
	(iii) Talc (Talc)	
E554	Sodium aluminosilicate (SODIUM	anti-caking and
	ALUMINOSILICATE)	anti-clumping
		additive
E555	Potassium aluminium silicate (POTASSIUM	anti-caking and
	ALUMINIUM SILICATE)	anti-clumping
	·	additive
E556	Calcium aluminium silicate (CALCIUM	anti-caking and
	ALUMINIUM SILICATE)	anti-clumping
	/	additive
E558	Bentonite (BENTONITE)	anti-caking and
1330	Delicented (Dilivioritil)	anti-clumping
		anti-crumping additive
I	I	auditive

E559 Aluminium silicate (ALUMINIUM SILICATE) anti-caki anti-clum additive E560 Potassium silicate (POTASSIUM SILICATE) anti-caki	_
additive	ping
E560 Potassium silicate (POTASSIUM SILICATE) anti-caki	
	.ng and
anti-clum	ping
additive	
E570 Fatty acids (FATTY ACIDS) foam stal	bilizer,
glazing	agent,
anti-foar	ming agent
E574 Gluconic acid (D-) (GLUCONIC ACID (D-)) acidity	regulator,
leavening	, agent
E575 Glucono delta-lactone (GLUCONO DELTA - acidity	regulator,
LACTONE) leavening	, agent
E576   Sodium gluconate (SODIUM GLUCONATE)   sequestra	int
E577 Potassium gluconate (POTASSIUM GLUCONATE) sequestra	int
E578 Calcium gluconate (CALCIUM GLUCONATE) acidity	regulator,
firming a	igent
E579 Ferrous gluconate (FERROUS GLUCONATE) colour st	abilizer
E580 Magnesium gluconate acidity	regulator,
firming a	igent
E585 Ferrous lactate (FERROUS LACTATE) colour st	abilizer
E620 Glutamic acid, L(+)- (GLUTAMIC ACID, flavour e	nhancer
L(+)-)	
E621 Monosodium glutamate (MONOSODIUM flavour e	nhancer
GLUTAMATE)	
E622 Monopotassium glutamate (MONOPOTASSIUM flavour e	nhancers
GLUTAMATE)	
E623 Calcium glutamate (CALCIUM GLUTAMATE) flavour e	nhancer
Lozo   Calcium giutamate (Calcium Glotamate)	
E624 Monoammonium glutamate (MONOAMMONIUM flavour e	nhancer
outstand grassmass (singular short and in the singular short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and short and s	enhancer
E624 Monoammonium glutamate (MONOAMMONIUM flavour e	
E624 Monoammonium glutamate (MONOAMMONIUM flavour e	enhancer

E627	Disodium 5'-guanylate (DISODIUM 5'- GUANYLATE)	flavour enhancer
E628	Dipotassium 5'-guanylate (DIPOTASSIUM 5'-GUANYLATE)	flavour enhancer
E629	Calcium 5'-guanylate (CALCIUM 5'- GUANYLATE)	flavour enhancer
E630	Inosinic acid (INOSINIC ACID)	flavour enhancer
E631	Disodium 5'-inosinate (DISODIUM 5'-INOSINATE)	flavour enhancer
E632	Potassium inosinate (POTASSIUM INOSINATE)	flavour enhancer
E633	Calcium 5'-inosinate (CALCIUM 5'-INOSINATE)	flavour enhancer
E634	Calcium 5'-ribonucleotides (CALCIUM 5'-RIBONUCLEOTIDES)	flavour enhancer
E635	Disodium 5'-ribonucleotides (DISODIUM 5'-RIBONUCLEOTIDES)	flavour enhancer
E636	Maltol (MALTOL)	flavour enhancer
E637	Ethyl maltol (ETHYL MALTOL)	flavour enhancer
E640	Glyvine (GLYCINE)	flavour modifier
E641	L-leucine (L-LEUCINE)	flavour modifier
E642	Lysin hydrochlorid (LYSIN HYDROCHLORID)	flavour enhancer
E900	Polydimethylsiloxane (POLYDIMETHYLSILOXANE)	anti-foaming agent, emulsifier, anti-caking and anti-clumping additive
E901	Beeswax, white and yellow (BEESWAX, WHITE AND YELLOW)	glazing agent, release agent
E902	Candelilla wax (CANDELILLA WAX)	glazing agent
E903	Carnauba wax (CARNAUBA WAX)	glazing agent
E904	Shellac (SHELLAC)	glazing agent
E905a	Mineral oil, food grade (MINERAL OIL, FOOD GRADE)	<pre>glazing agent, release agent, encapsulant</pre>
E905b	Petrolatum (petroleum jelly) (PETROLATUM (PETROLEUM JELLY))	glazing agent, release agent, encapsulant

i	!	ı
E905c	Petroleum wax (PETROLEUM WAX)	glazing agent,
	(i) Microcrystalline wax	release agent,
	(MICROCRYSTALLINE WAX)	encapsulant
	(,	glazing agent
		glazing agent
	(ii) Paraffin wax (PARAFFIN WAX)	
E906	Benzoin gum (BENZOIN GUM)	glazing agent
E908	Rice bran wax (RICE BRAN WAX)	glazing agent
E909	Spermaceti wax (SPERMACETI WAX)	glazing agent
E910	Wax esters (WAX ESTERS)	glazing agent
E911	Methyl esters of fatty acids (METHYL	glazing agent
	ESTERS OF FATTY ACIDS)	
E913	Lanolin (LANOLIN)	glazing agent
E920	Cysteine, L- and ts hydrochlorides -	flour and bread
	sodium and potassium salts (CYSTEINE, I	- improving agent
	AND ITS HYDROCHLORIDES - SODIUM AND	
	POTASSIUM SALTS)	
E921	Cystine, L- and its hydrochlorides -	flour and bread
	sodium and potassium salts (CYSTEINE, I	- improving agent
	AND ITS HYDROCHLORIDES - SODIUM AND	
	POTASSIUM SALTS)	
E927a	Azodicarbonamide (AZODICARBONAMIDE)	flour and bread
		improving agent
E927b	Carbamide (urea) (CARBAMIDE (UREA))	texturator
E928	Benzoyl peroxide (BENZOYL PEROXIDE)	flour and bread
		improving agent,
		preservative
E930	Calcium peroxide (CALCIUM PEROXIDE)	flour and bread
		improving agent
E938	Argon (ARGON)	propellant,
		packaging gas
E939	Hellium (GELLIUM)	propellant,
		packaging gas
E940	Dichlorodifluoromethane (freon -12)	propellant,
	(DICHLORODIFLUOROMETHANE)	cooling agent
E941	Nitrogen (NITROGEN)	gas environment
		used for packaging
		and storage,
		cooling agent
E942	Nitrous oxide (NITROUS OXIDE)	propellant,
	, , , , , , , , , , , , , , , , , , ,	packaging gas
E943a	Butane (BUTANE)	propellant
	Isobutane (ISOBUTANE)	propellant

E944	Propane (PROPANE)	propellant
E945	Chloropentafluoroethane	propellant
TO 4.C	(CHLOROPENTAFLUOROETHANE)	
E946	Octafluorocyclobutane	propellant
7040	(OCTAFLUOROCYCLOBUTANE)	
E948	Oxygen (OXYGEN)	propellant,
		packaging gas
E950	Acesulfame potassium (ACESULFAME	sweetener
	POTASSIUM)	
E951	Aspartame (ASPARTAME)	sweetener, flavour
		enhancer
E952	Cyclamic acid and Na, K, Ca salts	sweetener
	(CYCLAMIC ACID and Na, K, Ca salts)	
E953	Isomalt, somaltitol, (ISOMALT, SOMALTITOL	) sweetener, anti-
		caking and anti-
		clumping additive,
		filling agent,
		glazing agent
E954	Saccharin (Na, K, Ca salts)	sweetener
	(SACCHARIN and Na, K, Ca salts)	
E955	Sucralose (trichlorogalactosucrose)	sweetener
	(SUCRALOSE (TRICHLOROGALACTOSUCROSE))	
E957	Thaumatin (THAUMATIN)	sweetener, flavour
,		enhancer
E958	Glycyrrhizin (GLYCYRRHIZIN)	sweetener, flavour
L)	Olycylline (Olicinalidin)	enhancer
E959	Nachagnaridina dibudushalasa	sweetener
ت ک ک ک ت	Neohesperidine dihydrohalcone	PACECETTET
7060	(NEOHESPERIDINE DIHYDROCHALCONE)	
E960	Stevioside (STEVIOSIDE)	sweetener
	oduced by Amendments and Additions No	
	tion No. 41 of Chief State Sanitary Inspec	ctor of the RF dated
15.04.	1 7	1
E962	Twinsweet (TWINSWEET)	sweetener
	(introduced by Amendments and Additions	
	No. 2, approved by Resolution No. 41 of	
	Chief State Sanitary Inspector of the RF	
	dated 15.04.2003)	
E965	Maltitol and maltitol syrup (MALTITOL AN)	D sweetener,
	MALTITOL SYRUP)	stabilizer,
		emulsifier
E966	Lactitol (LACTITOL)	sweetener,
		1

E967	Xylitol (XYLITOL)	sweetener,
		humectant,
		stabilizer, emulsifier
E999	Quillaia extract (QUILLAIA EXTRACTS)	foaming agent
E1000	Cholic acid (CHOLIC ACID)	emulsifier
E1001	Choline, salts and esters (CHOLINE SALTS	emulsifier
	AND ESTERS)	
E1100	Amylases (AMYLASES)	flour and bread improving
		agent
E1101	Proteases (PROTEASES)	flour and bread improving
	(i) Protease (PROTEASE)	agent stabilizer,
	(ii) Papain (Papain)	ripening agent for meat
	(iii) Bromelain (Bromelain)	and fish, flavour
	(iv) Ficin (Ficin)	enhancer
E1102	Glucose oxidase (GLUCOSE OXIDASE)	antioxidant
E1103	Invertases (INVERTASES)	stabilizer
E1104	Lipases (LIPASES)	flavour enhancer
E1105	Lysozyme (LYSOZYME)	preservative
E1200	Polydextroses A and N (POLYDEXTROSES A	filling agent,
	AND N)	stabilizer,
		thickening agent,
		humectant, texturator
E1201	Polyvinylpyrrolidone	thickening agent,
	(POLYVINYLPYRROLIDONE)	stabilizer, clearer,
		dispersant
E1202	Polyvinylpolypyrrolidone	colour stabilizer,
	(POLYVINYLPOLYPYRROLIDONE)	colloidal stabilizer
E1400	Dexterins, roasted starch white and	stabilizer,
	yellow (DEXTRINS, ROASTED STARCH WHITE	thickening agent,
	AND YELLOW)	binder
E1401	Acid-treated starch (ACID-TREATED STARCH)	
		agent, binder
E1402	Alkaline treated starch (ALKALINE TREATED	_
	STARCH)	agent, binder

		T
E1403	Bleached starch (BLEACHED STARCH)	stabilizer,
		thickening agent,
		binder
E1404	Oxidized starch (OXIDIZED STARCH)	emulsifier,
		thickening agent,
		binder
E1405	Starches enzyme-treated	thickening agent
	(STARCHES ENZIME-TREATED)	
E1410	Monostarch phosphate (MONOSTARCH	stabilizer,
	PHOSPHATE)	thickening agent,
		binder
E1411	Distarch glycerol, cross-linked (DISTARH	stabilizer,
	GLICEROL)	thickening agent
E1412	Distarch phosphate esterified with sodium	
D1412	trimetasphosphate; esterified with	thickening agent,
	phosphorus oxychloride (DISTARCH	binder
	PHOSPHATE ESTERIFIED WITH SODIUM	bilider
	TRIMETASPHOSPHATE; ESTERIFIED WITH	
	PHOSPHORUS OXYCHLORIDE)	
E1413	Phosphated distarch phodphate, cross-	stabilizer,
	linked	thickening agent,
	(PHOSPHATED DISTARCH PHOSPHATE)	binder
E1414	Acetylated distarch phosphate, cross-	emulsifier,
	linked	thickening agent
	(ACETYLATED DISTARCH PHOSPHATE)	
E1420	Starch acetate esterified with acetic	stabilizer,
	anhydride	thickening agent
	(STARCH ACETATE ESTERIFIED WITH ACETIC	
	ANHYDRIDE)	
E1421	Starch acetate esterified with vinyl	stabilizer,
	acetate	thickening agent
	(STARCH ACETATE ESTERIFIED WITH VINYL	
	ACETATE)	
E1422	Acetylated distarch adipate (ACETYLATED	stabilizer,
	DISTARCH ADIPATE)	thickening agent,
		binder
E1423	Acetylated distarch glycerol (ACETYLATED	stabilizer,
	DISTARCH GLYCEROL)	thickening agent,
	DIGITALCH GUICELOU)	binder
E1440	Hydroxypropyl starch (HYDROXYPROPYL	
T1440		emulsifier,
	STARCH)	thickening agent,
D1 4 4 0		binder
E1442	Hydroxypropyl distarch phosphate, cross-	· ·
	linked	thickening agent
	(HYDROXYPROPYL DISTARCH PHOSPHATE)	
E1443	Hydroxypropyl distarch glycerol	stabilizer,
	(HYDROXYPROPYL DISTARCH GLYCEROL)	thickening agent
E1450	Starch sodium octenyl succinate	stabilizer,
	1	thickening agent,

	(STARCH SODIUM OCTENYL SUCCINATE)	binder, emulsifier
E1451	Acetilated oxydised starch (ACETILATED	emulsifier,
	OXYDISED STARCH)	thickening agent
	Castor oil (CASTOR OIL)	release agent
E1505	Tiethyl citrate (TRIETHYL CITRATE)	foaming agent
	Triacetin (TRIACETIN)	humectant
E1520	Propylene glycol (PROPYLENE GLYCOL)	humectant,
		softening agent
		and dispersant
E1521	Polyethylene glycol (POLYETHYLENE GLYCOL)	anti-foaming agent
-	allyl isothiocyanate	preservative
	N-Lauroyl Glutamic acid	preservative,
-		flour, bread
		improving agent
	N-lauroyl asparaginic acid	preservative,
-		flour, bread
		improving agent
	N-Lauroyl Glycerol	preservative,
-		flour, bread
		improving agent
-	Vanillin	flavour substance
-	Dihydroquercetin	antioxidant
-	Imbricin	preservative
-	Quercetin	antioxidant
-	Caramel No.1 (Red)	colouring agent
-	Caramel No.2 (Red)	colouring agent
_	Caramel No.3(Red)	colouring agent
-	Red rice (RED RICE)	colouring agent
-	Soapwort decoction (Acantophyllum sp.),	stabilizer
	dencity 1.05	
-	Oxyethyl succinate-21	emulsifier
	Polyvinyl alcohol	humectant
_	Hydrogen Peroxide	preservative
-	Polyoxyethylene	clearer
-	Ethoxyquin	preservative
_	Stevia (Stevia rebaudiana Bertoni),	

powder from leaves and syrup thereof (as amended by Amendments and Additions No. 2, approved by Resolution No. 41 of Chief State Sanitary Inspector of the RF dated 15.04.2003)				
-	Sodium, potassium and calcium succinates	acidity - regulators		
_	Ultramarine	colouring agent		
_	Potassium formate (POTASSIUM FORMATE)	preservative		
-	Chitosan, chitosonium hydrochloride	filling agent, thickening agent, stabilizer		
-	Ferrous chloride	flour and bread improving agent		
- Erythritol (ERYTHRITOL) sweetener (introduced by Amendments and Additions No. 2, approved by Resolution No. 41 of Chief State Sanitary Inspector of the RF dated 15.04.2003)				
-	Juglone	preservative		

Annex 8 to SanPiN 2.3.2.1078-01, approved by Resolution No. 36 of the Chief State Sanitary Inspector of the RF dated November 14, 2001

## HYGIENIC REQUIREMENTS FOR SAFETY OF CANNED FOOD PRODUCTS

Depending on the composition of a canned food product (canned food), the value of the active acidity (pH) and a dry substances content the canned foods are divided into 5 groups: A, B, C, D, E, F. The canned products of groups A, B, C, D and F refer to the fully canned food and group E - to semicanned foods.

Drinking dairy products (milk, cream, desserts etc.), subjected to various ways of thermophysical treatment and aseptic filling, form a separate group of sterilized products.

The canned foods for children and dietic nourishment are divided into the same groups as stated above.

Food products sealed in airtight containers, subjected to heat treatment ensuring the microbiological stability and safety of the product during its storage and sale in standard conditions (not in the refrigerator) shall be referred to the fully canned foods.

Food products sealed in airtight containers subjected to heat treatment ensuring the death of not thermoresistant asporogenous microflora, reducing the number of spore-forming microorganisms and ensuring the microbiological stability and safety of the product within a limited shelf life at temperatures of 6 Celsium degrees and below shall be referred to the semicanned foods.

The canned foods are divided into the following groups:

- Group A canned food products with pH of 4.2 and above, as well as vegetable, meat, meat and vegetable, fish and vegetable and fish canned products with not-limited acidity, prepared without addition of acid; fruit drinks, juices and puree from apricots, peaches and pears with pH 3.8 and above, condensed sterilized canned milk, canned foods with a complex composition of the raw materials (fruit and berry, fruit and vegetable and vegetable with milk component);
- Group B canned tomato products:
- a) unconcentrated tomato products (canned plain tomatoes, tomato drinks) with dry substances content of less than 12%;
- b) concentrated tomato products with dry substances content 12% and more (tomato paste, tomato sauce, ketchup etc.);
- Group C canned subacid vegetable marinades, juices, salads, vinaigrettes and other products with pH 3.7–4.2, including canned cucumbers, vegetable and other canned foods with adjusted acidity;
- Group D canned vegetables with pH below 3.7; fruit and fruit and berry pasteurized canned foods; canned foods for public catering with sorbic acid and pH below 4.0; canned apricots, peaches and pears with pH below 3.8; vegetable juices with pH below 3.7; fruit (citrus) and fruit and berry juices, including juices with sugar, natural and pulpy, concentrated, pasteurized juices; canned juices from apricots, peaches and pears with pH 3.8 and below; beverages and concentrated beverages on the vegetable basis with pH 3.8 and below packaged by aseptic filling;
- Group E pasteurized meat, meat and vegetable, fish and fish and vegetable canned products (bacon, salted and smoked bacon, sausages, ham etc.);
- Group F pasteurized carbonated fruit juices and carbonated fruit drinks with pH 3.7 and below.

Taking of samples of canned foods and their preparation for laboratory research for compliance with the safety requirements according to the microbiological indicators shall be carried out after their inspection and sanitary processing, leakage check, thermostatting of the canned foods and the evaluation of the canned foods external appearance after the thermostatting.

Table 1

Microbiological Safety Indicators (Industrial Sterility) of Fully Canned Foods of Groups A and B <*>

No.	Microorganisms Detected in Canned Food	General Purpose Canned Foods	Canned Foods for Children and Dietic Nourishment
1 1.	Spore-forming mesophilic aerobic and facultative anaerobic microorganisms of Group B. subtilis	Meet the requirements of industrial sterility. In case of detection of such microorganisms their amount shall not be more than 11 cells in 1 g (cm³) of the product.	4
2.	Spore-forming mesophilic aerobic and facultative anaerobic microorganisms of Group B. cereus and (or) B. polymyxa	Do not meet the requirements of industrial sterility	
3.	Mesophilic clostridia	Meet the requirements of industrial sterility, if the detected Mesophilic clostridia are not referred to C. botulinum and (or) C. perfringens. In case of detection of Mesophilic clostridia their amount shall not be more than 1 cell in 1 g (cm³) of product.	Do not meet the requirements of industrial sterility if detected in 10 g (cm³) of the product
4.	Non-spore-forming microorganisms and (or) mold mushrooms and (or) yeast	Do not meet the requirements of industrial sterility	
5.	Mold mushrooms, yeast, lactic acid microorganisms (at seeding on these groups)		Do not meet the requirements of industrial sterility
6.	Spore-forming thermophilic anaerobic, aerobic and facultative anaerobic microorganisms	Meet the requirements of industrial sterility, but the storage temperature shall not be above 20 Celsius degree.	Do not meet the requirements of industrial sterility

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<*> For condensed sterilized canned milk the assessment of the industrial sterility shall be carried out in accordance with the effective state standard.

No.	Microorganisms Detected in Canned Foods	Group C	Group D
1.	Gas-producing spore-forming mesophilic aerobic and facultative anaerobic microorganisms of Group B. polymyxa	Do not meet the requirements of industrial sterility	Not detected
2.	Nongas-producing spore-forming mesophilic aerobic and facultative anaerobic microorganisms	Meet the requirements of industrial sterility at detection of these microorganisms in the amount of not more than 90 CFU in 1g (cm³) of product	Not detected
3.	Mesophilic clostridia	Meet the requirements of industrial sterility, if the detected mesophilic clostridia are not referred to C. botulinum and (or) C. perfringens. In case of detection of mesophilic clostridia their amount shall not be more than 1 cell in 1 g (cm³) of product.	Not detected
4.	Non-spore-forming microorganisms and (or) mold mushrooms and (or) yeast	Do not meet the requirements of industrial sterility	

Table 3

Microbiological Safety Indicators (Industrial Sterility) of Canned Foods of Group F

No.	Indicators	Permissible Level Meeting the Industrial Sterility Requirements
1.	Quantity of mesophilic aerobic and facultative anaerobic microorganisms (QMAFAnM)	Not more than 50 CFU/g (cm ³ )
2.	Lactic acid microorganisms	Not allowed in 1 g (cm ³ ) of product
3.	Colibacillus group bacteria (CGB, coliforms)	Not allowed in 1000 g (cm ³ ) of product
4.	Yeast	Not allowed в g (cm³) of product
5.	Mould	Not more than 50 CFU/g (cm ³ )

Table 4

Microbiological Safety Indicators (Industrial Sterility) of Semicanned Foods of Group E

No.	Indicators	Permissible Level Meeting the Industrial Sterility
		Requirements
1.	Quantity of mesophilic aerobic and facultative anaerobic microorganisms (QMAFAnM)	Not more than 2 x 1E2 CFU/g(cm ³ )
2.	Colibacillus group bacteria (CGB, coliforms)	Not allowed in 1 g (cm ³ ) of product
3.	B. cereus	Not allowed in 1 g (cm ³ ) of product
4.	Sulfite-reducing clostridia	Not allowed in 0.1 g (cm ³ ) of product <*>
5.	S. aureus	Not allowed in 1 g (cm ³ ) of product
6.	Pathogenic, including salmonella	Not allowed in 25 g (cm ³ ) of product

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<*> For fish semicanned foods not allowed in 1.0 g (cm³) of product.

Table 5

### Microbiological Safety Indicators (Industrial Sterility) of Drinking Sterilized Milk and Cream and other Milk-based Products of Aseptic Filling

No. π/π	Indicators	Conditions and Permissible Levels Meeting the Industrial Sterility Requirements
1.	Thermostatic holding at 37°C for 3-5 days	Absence of visible defects and signs of spoilage (package swelling, change in appearance etc.)
2.	Acidity, °T <*>	Change of titrated acidity of not more than by 2°T
3.	Quantity of mesophilic aerobic and facultative anaerobic microorganisms <*>	Not more than 10 CFU/g (cm ³ )
4.	Microscope slide	Absence of bacterium cells
5.	Organoleptic property	Absence of change in taste and consistence

<*> Shall be determined at sanitary and epidemiological expertise, at control of children and dietary food products and repeated researches.

ConsultantPlus: note.

The Annex was not submitted for registration to the Ministry of Justice of the Russian Federation.

Annex 9 (Reference) to SanPiN 2.3.2.1078-01

#### 9. GENERAL TERMS AND DEFINITIONS

For the purposes of these Sanitary Rules the following terms and definitions shall be used:

food products mean products in the natural or processed form, which are used for human food (including children food products, dietary products), bottled drinking water, alcoholic beverages (including beer), soft drinks, chewing gum and food staples, food additives and biologically active additives;

children food products mean food products designed for children under the age of 14 years and meeting the physiological needs of the child's organism;

dietary products mean food products designed for therapeutic and preventive nourishment;

food staples mean the raw materials of plant, animal, microbial, mineral and synthetic origin and water used for preparation of food products;

food additives mean natural or artificial substances and their compounds, specially introduced into food products during the manufacturing process in order to give the food products certain properties and (or) to preserve the quality of food products;

biologically active additives mean natural (identical to natural) biologically active substances, intended for use together with food or for indtroducing into the food products composition;

probiotic products mean food products manufactured with the addition of live cultures of probiotic microorganisms and prebiotics;

probiotic microorganisms mean living non-pathogenic and nontoxigenic microorganisms - the representatives of the protecting groups of the normal intestinal microbiocenosis of man and natural symbiotic associations, having positive influence on the human body by maintaining the normal composition and biological activity of the microflora in the digestive tract, mainly of the genera: Bifidobacterium, Lactobacillus, Lactococcus, Propionibacterium, etc;

prebiotics mean food substances that selectively stimulate the growth and (or) the biological activity of the representatives of the protective intestinal microflora, thereby contributing to the maintenance of its normal structure and biological activity;

genetically modified food sources mean food products (components) used for human food in the natural or processed form derived from genetically modified organisms;

genetically modified organisms mean an organism or a few organisms, any non-cellular, single-celled or multicellular organisms capable of reproduction or transmission of the inherent genetic material, different from natural organisms obtained by making use of genetic engineering and containing genetically engineered material, including genes, fragments thereof or a combination of genes;

quality of food products mean a set of characteristics of food products that can satisfy the human need for food under normal conditions of their use;

safety of food products mean the state of reasonable assurance that the food products are not harmful under normal conditions of their use and are not dangerous to the health of current and future generations;

nutritional value of food products means a set of food product properties which (if available) satisfy the human physiological needs for the required substances and energy;

quality and safety certificate of food products mean a document in which the manufacturer certifies that the quality and safety of each batch of food products comply with the requirements of the regulatory and technical documents:

regulations mean state standards, sanitary and veterinary rules and standards establishing the requirements for the quality and safety of food products, materials and goods, control of their quality and safety, conditions of their manufacture, storage, transportation, sale and use, disposal or destruction of low-quality, hazardous food products, materials and goods;

technical documents mean the documents under which the manufacture, storage, transportation and sale of food products, materials and goods are carried out (technical requirements, technological instructions, formulations, etc.);

turnover of food products means purchase and sale (including export and import) and other ways of food products transfer (hereinafter referred to as the sale), their storage and transportation;

food products disposal mean the use of low-quality and dangerous food products for the purposes other than the purpose for which the food products are intended and for which they are commonly used.

ConsultantPlus: note.

The Annex was not submitted for registration to the Ministry of Justice of the Russian Federation.

Annex 10 (Reference) to SanPiN 2.3.2.1078-

01

# 10. NORMATIVE AND METHODICAL DOCUMENTS ON METHODS FOR DETECTION AND CONTROL OF SAFETY AND NUTRITIONAL VALUE OF FOOD PRODUCTS

- 10.1 GOST (State Standard) 30178-96 Food Raw Materials and Products. Atomic Absorption Method for Detection of Toxic Elements. International Standard.
- 10.2 GOST 8558.1-78 Meat Products. Nitrite Detection Methods.
- 10.3 GOST 26927-86 Food Raw Materials and Products. Mercury Detection Methods.
- 10.4 GOST 26928-86 Food Raw Materials and Products. Iron Detection Methods.
- 10.5 GOST 26930-86 Food Raw Materials and Products. Arsenic Detection Methods.
- 10.6 GOST 26931-86 Food Raw Materials and Products. Copper Detection Methods.
- 10.7 GOST 26932-86 Food Raw Materials and Products. Lead Detection Methods.
- 10.8 GOST 26933-86 Food Raw Materials and Products. Cadmium Detection Methods.
- 10.9 GOST 26934-86 Food Raw Materials and Products. Zinc Detection Methods.
- 10.10 GOST 26935-86 Food Raw Materials and Products. Tin Detection Methods.
- 10.11 MU (Methodological Instructive Regulations) 5178-90 Methodological Instructive Regulations for Detection of Mercury in Food Products.
- 10.12 MU 01-19/47-11-92 Methodological Instructive Regulations for the Atomic Absorption Method for Detection of Toxic Elements in Food Products.
- 10.13 GOST 28038-89 Processed Fruit and Vegetables. Penicidin Detection Method.

- 10.14 MU 4082-86 Methodological Instructive Regulations for Finding, Identification and Detection of Aflatoxins in Food Staples and Food Products by High Performance Liquid Chromatography.
- 10.15 MU 5177-90 Methodological Instructive Regulations for Identifying and Detecting the Content of Desoxynivalenol (Vomitoxin) and Zearalenone in Grain and Grain Products.
- 10.16 GOST R 51116-97 Feed-Stuff, Grain and its Derived Products. Methods for Detection of Desoxynivalenol (Vomitoxin) Content.
- 10.17 MU 3184-84 Methodological Instructive Regulations for Finding, Identification and Detection of T-2 Toxin in Food Products and Food Raw Materials.
- 10.18 MUK 4.4.1.011-93 Detection of Volatile N-Nitrosamines in Food Staples and Food Products.
- 10.19 SanPiN 42-123-4083-86 Temporary Hygienic Regulations and Method for Detecting the Content of Histamine in Fish Products.
- 10.20 MU 5048-89 Detection of Nitrates and Nitrites in Plant Products.
- 10.21 GOST 29270-95 Processed Fruit and Vegetables. Nitrates Detection Method.
- 10.22 MU 4721-88 Methodological Instructive Regulations for Finding, Identification and Quantitative Measurement of Saturated and Mono-, Bi-, Tri- and a Number of Polycyclic Aromatic Hydrocarbons in Food Products.
- 10.23 GOST R 51 650 Food Raw Materials and Products. Methods for Determining the Mass Fraction of Benz(a)pyrene.
- 10.24 Methodological Instructive Regulations for the Detection of the Carcinogenic Hydrocarbon Benzo(a)pyrene in some Food Products and Packaging Materials (No. 1426-76 of the Ministry of Health of the USSR).
- 10.25 MUK 4.1-1023-01 Isomer-Specific Detection of Polychlorinated Biphenyls (PCBs) in Food Products. Ministry of Health adn Social Development of the Russian Federation, Moscow, 2001.
- 10.26 GOST R 30059-93, Soft Drinks. Aspartame, Saccharin, Caffeine and Sodium Benzoate Detection Methods.
- 10.27 GOST 26181-84 Processed Fruit and Vegetables. Sorbic Acid Detection Methods.
- 10.28 GOST R 50476-93 Processed Fruit and Vegetables. The Method for Determining the Content of Sorbic and Benzoic Acids at their Copresence.
- 10.29 GOST 8756.1-89 Processed Fruit and Vegetables. Benzoic Acid Detection Method.
- 10.30 GOST R 51182-98 Coffee Products. The Method of Measurement of Caffeine Mass Fraction.
- 10.31 GOST 14351-73 Wine and Brandy Spirits. Method for Detection of Free and Total Sulphurous Acid.
- 10.32 GOST 26811-86 Confectionery. The Method of Determining the Mass Fraction of Total Sulphurous Acid.
- 10.33 Methodological Instructive Regulations for the Detection of Antioxidants in Chewing Gum (No. 01-19/60-11 dated 04.04.93).
- 10.34 GOST R 51240-98, Fruit and Vegetable Juices. Method for Detection of D-Glucose and D-Fructose.
- 10.35 GOST 30089-93, Vegetable Oils. Erucic Acid Detection Method.
- 10.36 GOST 30627.1-98 Dairy Products for Children Food. Methods of Measuring the Mass Fraction of Vitamin A (Retinol).
- 10.37 GOST 30627.2-98 Dairy Products for Children Food. Methods of Measuring the Mass Fraction of Vitamin C (Ascorbic Acid).
- 10.38 GOST 30627.3-98 Dairy Products for Children Food. Methods of Measuring the Mass Fraction of Vitamin E (Tocopherol).
- 10.39 GOST 30627.4-98 Dairy Products for Children Food. Methods of Measuring the Mass Fraction of Vitamin PP (Niacin).
- 10.40 GOST 30627.5-98 Dairy Products for Children Food. Methods of Measuring the Mass Fraction of Vitamin B₁ (Thiamine).
- 10.41 GOST 30627.6-98 Dairy Products for Children Food. Methods of Measuring the Mass Fraction of Vitamin  $B_2$  (Riboflavin).
- 10.42 MR (Methodological Recommendations) 01-19/137-17-95 Methodological Recommendations for the Stripping Voltammetry Detection of Toxic Elements and Vitamins in Food Products, Food Staples, Cosmetics and Toys.
- 10.43 GOST 30418-96, Vegetable oils. Method for Detection of Fatty Acid Composition.
- 10.44 GOST 51698-2000 Vodka and Ethyl Alcohol. Gas Chromatographic Method for the Detection of Toxic Trace.
- 10.45 Methodological Instructive Regulations for Finding, Identification and Detection of Residues of Laevomycetin in Food Products of Animal Origin. Minsk—Moscow, 1991.
- 10.46 MUK 4.2.026-95 Express Method of Detecting Antibiotics in Food Products.
- 10.47 MU 3049-84 Methodological Instructive Regulations for the Detection of Residues of Antibiotics in Animal Products.
- 10.48 GOST 23454-79 Milk. Inhibiting Substances Detection Methods.
- 10.49 GN (Hygienic Regulations) 1.1546-96 Hygienic Regulations for Pesticides Content in the Environment.
- 10.50 MU 5778-91 Strontium-90. Detection in Food Products. Moscow, 1991. Certificate MA MVI IBF No. 14/1-89
- 10.51 MU 5779-91, Cesium-137. Detection in Food Products. Moscow, 1991. Certificate MA MVI IBF No. 15/1-89.

- 10.52 MUK 2.6.2717-98 Radiation Control. Sr90 and Cs137. Food Products. Taking of Samples, Analysis and Hygienic assessment. Methodological Instructive Regulations.
- 10.53 The Method of Measurement. Cesium-134, Cesium-137 and Potassium-40. Detection in Samples of Agricultural Products and Vegetation using a Scintillation Gamma-Ray Spectrometer. Moscow, 1991. Certificate MA MVI IBF No. 37/17-91.
- 10.54 Methodological Instructive Regulations. Specific Activity of Strontium-90. Beta-spectrometric Measurements in the Environment, Food Products and Bioassays. Approved by the Head of Center for Metrology of Ionizing Radiation of Scientific-Production Association National Research Institute for Physicotechnical and Radio Engineering Measurements named after V.P. Yaryna dated 23.06.93.
- 10.55 SanPiN 3.2.569-96 Prevention of Parasitic Diseases in the Territory of the Russian Federation.
- 10.56 MUK 4.2.964-00 Sanitary Parasitological Studies of Water of Economic and Drinking Use.
- 10.57 Prevention and Control of Communicable Diseases Common to Humans and Animals. Book of Sanitary and Veterinary Rules. Moscow, 1996.
- 10.58 Methods for the Laboratory Diagnosis of Trichinosis. Approved by the Main Administration for Veterinary of Gosagroprom of the USSR. (Veterinary Legislation. Moscow, 1988. V. 4. Pp. 250—251).
- 10.59 MUK 3.2.988-00 Methods of Sanitary Parasitological Examination of Fish, Mollusks, Crustaceans, Amphibians, Reptiles and their Derived Products.
- 10.60 Regulations for the Sanitary-Parasitological Evaluation of Sea Fish and Fish Products (Raw Fish, Chilled and Frozen Sea Fish Intended for Sale in Trade Network and Public Catering Enterprises). Agreed upon with Ministry of Health of the USSR on 22.12.89.
- 10.61 MUK 4.2.796-99 Methods for Sanitary Parasitological Studies.
- 10.62 Sanitary Regulations for Use of Food Additives (Ministry of Health of the USSR, No. 1923-78. Moscow, 1979) as amended.
- 10.63 SanPiN 2.1.4.1074-01 Drinking Water. Hygiene Requirements for the Water Quality of Centralized Drinking Water Supply Systems. Quality Control.
- 10.64 GOST 7698-93 Starch. Rules for Acceptance and Methods of Analysis.
- 10.65 GOST 51144-98 Wine Industry Products. Rules for Acceptance and Sampling Methods.
- 10.66 GOST 51135-98 Alcoholic Products. Rules for Acceptance and Methods of Analysis.
- 10.67 GOST 300004.2-93 Mayonnaise. Rules for Acceptance and Test Methods.
- 10.68 GOST 8756.18-70 Canned Food Products. Method for Evaluating the Appearance, Container Airtightness and Condition of the Inner Surface of the Metal Containers.
- 10.69 Instruction on the Procedure and Frequency of Control over the Content of Microbiological and Chemical Contaminants in Milk and Dairy Products at the Dairy Industry Enterprises (Moscow, 1996).
- 10.70 Instruction on the Procedure and Frequency of Control over the Content of Microbiological and Chemical Contaminants in Meat, Poultry, Eggs and their Derived Products (Moscow, 2000).
- 10.71 GOST R 51301-99, Food Products and Food Staples. Stripping-Voltammetry Methods for the Detection of Toxic Elements Content (Cadmium, Lead, Copper and Zinc).
- 10.72 MUK 4.1.985-00 Detection of Toxic Elements Content in Food Products and Food Staples. Autoclave Sample Preparation Technique.
- 10.73 MUK 4.1.986-00 Method of Measurement of the Mass Fraction of Lead and Cadmium in Food Products and Food Staples by Electrothermal Atomic Absorption Spectrometry.
- 10.74 MUK 4.1.991-00 Method of Measurement of the Mass Fraction of Copper and Zinc in Food Products and Food Staples by Electrothermal Atomic Absorption Spectrometry.
- 10.75 MUK 4.1.003-95 Detection of Selenium in Food Products.
- 10.76 GOST R 51232-98 Drinking Water. General Requirements for the Arrangement and Methods of Quality Control.
- 10.77 GOST R 51762-2001 Vodka and Ethyl Alcohol made from Food Raw Materials. Gas Chromatographic Method for the Detection of Volatile Acids and Furfural Content.
- 10.78 GOST R 51786-2001 Vodka and Ethyl Alcohol Made from Food Raw Materials. Gas Chromatographic Method for Determining the Authenticity.
- 10.79 GOST 30711-2001 Food Products. Methods for Finding and Detection of Aflatoxins B1 and M1 Content.
- 10.80 GOST R 51181-98 Food Concentrates for Children and Dietary Nourishment. Method of Measurement of Mass Fraction of Carotenoids.
- 10.81 GOST R 50479-93 Processed Fruit and Vegetables. Method for Detection of Vitamin PP Content.
- 10.82 GOST R 51435-99 (ISO 8128-1-93) Apple Juice, Canned Apple Juice and Drinks Containing Apple Juice. Method for Patulin Content Detection by High Performance Liquid Chromatography.
- 10.83 GOST R 51440-99 (ISO 8128-2-93) Apple Juice, Canned Apple Juice and Drinks Containing Apple Juice. Method for Patulin Content Detection by Thin-Layer Chromatography.
- 10.84 Guidance on the Methods of Analysis of the Food Products Quality and Safety. /Under the editorship of I.M. Skurikhin, V.A. Tutelyan. Moscow, Brandes-Medicine, 1998.
- 10.85 GOST 30349-96, Fruits, Vegetables and their Derived Products. Methods for Detection of Organochlorine Pesticides Residues.
- 10.86 GOST 23452-79 Milk and Dairy Products. Methods for Detection of Organochlorine Pesticides Residues.

10.87 MU No. 2142-80 Methodological Instructive Regulations for the Detection of Organochlorine Pesticides in Water, Food Products, Feeding Stuffs and Tobacco Products by Thin-Layer Chromatography.

10.88 MU No. 1875-78 Methodological Instructive Regulations for the Detection of Organochlorine Pesticides in Vegetable Oils and Animal Fats, Phosphatide Concentrates, Husk, Bagasse and Extraction Cake by Liquid Chromatography.

10.89 Detection of Aldrin, Hexachlorane, Heptachlor, DDT, DDD, Dichlorodiphenylethylene in Water, Vegetables, Fruits and Biological Material by Gas-Liquid Chromatography. In the book Methods of Detection of Pesticides Trace in Food Products, Feeding Stuffs and the Environment. Moscow, Kolos, 1977. Pp. 17—20.

10.90 MU No. 1222-75 Detection of Organochlorine Pesticides in Meat, Products and Animal Fats by Thin-Layer Chromatography.

10.91 MU 1350-75 Methodological Instructive Regulations for the Detection of Organochlorine Pesticides in the Raw Materials for the Production of Infant Evaporated Milk Formula.

10.92 GOST 27669-88 Wheat Flour. Methods of Test Laboratory Bread Making.

ConsultantPlus: note.

The Annex was not submitted for registration to the Ministry of Justice of the Russian Federation.

# 11. NORMATIVE AND GUIDANCE DOCUMENTS FOR METHODS AND PROCEDURES OF MICROBIOLOGICAL CONTROL OF SAFETY AND NUTRITIONAL VALUE OF DIFFERENT FOOD PRODUCTS GROUPS

- 11.1. When taking samples of food products, preparing them for the analysis for microbiological research and cultivation of microorganisms the provisions of the following documents should be followed:
- 1 GOST 26668-85 Food Products and Flavors. Methods of Sampling for Microbiological Analysis.
- 2 GOST 26669-85 Food Products and Flavors. Preparation of Samples for Microbiological Analysis.
- 3 GOST 26670-85 Food Products and Flavors. Methods of Microorganisms Cultivation.
- 4 GOST 51446-99 (ISO 7218-96) Food Products. General Rules for Microbiological Studies.
- 5 GOST 10444.1-84 Canned Foods. Preparation of Solutions of Reagents, Dyes, Indicators and Growth Media Used in Microbiological Analysis.
- 6 GOST 8756.18-70 Canned Foods. Methods for Evaluating the Appearance, Air-tightness of the Container and Condition of the Inner Surface of Metal Containers.
- 7 MUK 4.2.590-96 Bacteriological Studies Using Rapid Response Analyzer Bak-Trak 4100.
- 11.2. Taking of samples of specific products, their preparation for analysis and microbiological studies shall be carried out in accordance with the effective documents.

#### Infant food products

- 8 MUK 4.2.577-96 Methods of Microbiological Control of Products for Children and Therapeutic Nourishment and their Components.
- 9 GOST 26972-86, Grains, Cereals, Flour, Oatmeal for Children Food. Methods of Microbiological Analysis.
- 10 GOST 30705-2000 Dairy Products for Children Food. Method for Detection of Mesophilic Aerobic and Facultative Anaerobic Microorganisms.
- 11 GOST 30706-2000 Dairy Products for Children Food. The Method of Determining the Amount of Yeast and Moulds.
- 12 SanPiN 42-123-4423-87 Normative Standards and Methods for Microbiological Control of Children Food Products Made by Milk Kitchens of the Health Care System.
- 13 MUK 4.2.1122-02 Organization of Control and Methods for Detection of Listeria monocytogenes Bacteria in Food Products.
- Full (sterilized) canned foods of all kinds of general purpose and for children food.
- 14 Instructions on the Procedure of Sanitary and Technical Control of Canned Foods at the Production Plants, Wholesale Facilities, Retail and Public Catering Enterprises (Moscow, 1993; State Committee for Health and Epidemiological Supervision of the Russian Federation No. 01-19.9-11 of 21.07.92).
- 15 GOST 8756.18-70 Canned Foods. Methods for Evaluating the Appearance, Air-tightness of the Container and Condition of the Inner Surface of Metal Containers.
- 16 GOST 30425-97 Canned Foods. Industrial Sterility Detection Method.
- 17 GOST 10444.11-89 Food Products. Methods for Detection of Lactic Acid Microorganisms.
- 18 GOST 10444.12-88 Food Products. Methods for Detection of Yeast and Moulds.
- 19 GOST 10444.15-94 Food Products. Methods for Quantity Measurement of Mesophilic Aerobic and Facultative Anaerobic Microorganisms.
- 20 GOST 10444.2-94 Food Products. Methods for Finding and Quantity Measurement of Staphylococcus Aureus.

Pasteurized canned meat, meat and vegetables and poultry.

- 21 Instructions on the Procedure of Sanitary and Technical Control of Canned Foods at the Production Plants, Wholesale Facilities, Retail and Public Catering Enterprises (Moscow, 1993; State Committee for Health and Epidemiological Supervision of the Russian Federation No. 01 -19.9-11 of 21.07.92).
- 22 Instruction on the Procedure of Microbiological Control of Pasteurized Canned Meat Production. Moscow, 1984.
- 23 GOST 10444.15-94 Food Products. Methods for Quantity Measurement of Mesophilic Aerobic and Facultative Anaerobic Microorganisms.
- 24 GOST 30518-97 (GOST R 50474-93) Food Products. Methods for Finding and Quantity Measurement of Escherichia coli Bacteria (Coliform Bacteria).
- 25 GOST 30519-97 (GOST R 50480-93) Food Products. Method of Identifying Bacteria of Genus Salmonella.
- 26 GOST 29185-91 Food Products. Methods for Finding and Quantity Measurement of Sulfite-Reducing Clostridia.

27 GOST 10444.2-94 Food Products. Method of Finding and Detection of Staphylococcus aureus.

Meat of livestock for slaughter, poultry, eggs and their derived products

- 28 Instruction on the Procedure and Frequency of Control over the Content of Microbiological and Chemical Contaminants in Meat, Poultry, Eggs and their Derived Products. Moscow, 2000.
- 29 The Procedure of the Sanitary-Microbiological Control in the Production of Meat and Meat Products. Moscow, 1996 (Industry Regulatory Document).
- 30 GOST 9792-73 Sausage Goods and Products from Pork, Lamb, Beef and from Meat of other Types of Livestock and Poultry for Slaughter. Rules for Acceptance and Sampling Methods.
- 31 Instructions on Sanitary-Microbiological Control of Carcasses, Poultry Meat, Poultry Products, Eggs and Egg Products at Poultry Farms and Poultry Processing Plants. Moscow, 1990.
- 32 GOST 7702.2.0.-95 Poultry Meat, By-Products and Semi-finished Products. Methods of Sampling and Preparation for Microbiological Studies.
- 33 GOST 30519-97 (GOST R 50480-93) Food Products. Method of Identifying Bacteria of the Genus Salmonella.
- 34 GOST 30518-97 (GOST R 50474-93) Food Products. Methods for Finding and Quantity Measurement of Escherichia coli Bacteria (Coliform Bacteria).
- 35 GOST 10444.15-94 Food Products. Methods for Quantity Measurement of Mesophilic Aerobic and Facultative Anaerobic Microorganisms.
- 36 GOST 7702.2.2.-93 Poultry Meat, By-Products and Semi-finished Products. Methods for Finding and Quantity Measurement of Escherichia coli Bacteria (Coliform Bacteria of Genera Escherichia, Citrobacter, Enterobacter, Klebsiella, Serratia).
- 37 GOST 7702.2.3.-93 Poultry Meat, By-Products and Semi-finished Products. Salmonella Detection Method.
- 38 GOST 7702.2.4-93 Poultry Meat, By-Products and Semi-finished Products. Method for Finding and Quantity Measurement of Staphylococcus aureus.
- 39 GOST 7702.2.5.-93 Poultry Meat, By-Products and Semi-finished Products. Methods for Finding and Quantity Measurement of Listeria.
- 40 GOST 7702.2.6-93 Poultry Meat, By-Products and Semi-finished Products. Method for Finding and Quantity Measurement of Sulfite-reducing Clostridia.
- 41 GOST 7702.2.7.-95 Poultry Meat, By-Products and Semi-finished Products. Method of Identifying Bacteria of the Genus Proteus.
- 42 GOST 7702.2.1.-95 Poultry Meat, By-Products and Semi-finished Products. Method for Quantity Measurement of Mesophilic Aerobic and Facultative Anaerobic Microorganisms.
- 43 GOST 28560-90 Food Products. Methods of Identifying Bacteria of the Genera Proteus, Morganella, Providenscia.
- 44 GOST 29185-91 Food Products. Methods for Finding and Quantity Measurement of Sulfitereducing Clostridia.
- 45 GOST 10444.9-88 Food Products. Method for Detection of Clostridium perfringens.
- 46 GOST 28566-90 Food Products. Method for Finding and Quantity Measurement of Enterococci.
- 47 GOST 21237-75 Meat. Methods of Bacteriological Analysis.
- 48 GOST 9958-81 Sausage Goods and Meat Products. Methods of Bacteriological Analysis.
- 49 GOST 30726-2001 Food Products. Methods for Finding and Quantity Measurement of Bacteria of the Species Escherichia coli (Reference Method).
- 50 GOST 50454-92 Meat and Meat Products. Identifying and Registering of the Alleged Coliform Bacteria and Escherichia coli (Reference Method).
- 51 GOST 50455-92 Meat and Meat Products. Identifying of Salmonella (Reference Method).
- 52 GOST 29184-91 Food Products. Methods for Finding and Quantity Measurement of Bacteria of the Family Enterobacteriacerae.
- 53 GOST 30364.2-96 Egg Products. Microbiological Methods Of Control.
- 54 MUK 4.2.1122-02 Arrangement of Control and Methods for Detection of Listeria monocytogenes Bacteria in Food Products.
- Milk and all kinds of dairy products (except for infant food products)
- 55 GOST 9225-84 Milk and Dairy Products. Methods of Microbiological Analysis.
- 56 Instruction on Microbiological Control of Production at Enterprises of Dairy Industry. Moscow, 1988.
- 57 Instruction on the Procedure and Frequency of Control over Microbiological and Chemical Contaminants at Enterprises of Dairy Industry. Moscow, 1995.
- 58 GOST 51331-99. Dairy Products. Yoghurt. General Specifications (as related to Detecting Lactic Acid Microorganisms; Detection of Bifidobacteria in Yogurt).
- 59 GOST 13264-88 Cow Milk. Requirements for the Procurement.
- 60 GOST 30519-97 (GOST 50480-93) Food Products. Method of Identifying Bacteria of the Genus Salmonella.
- 61 GOST 10444.11-89 Food Products. Method of Detection of Lactic Acid Microorganisms.
- 62 GOST 30347-97 Milk. Method of Finding and Detection of Staphylococcus aureus.

- 63 MUK 4.2.1122-02 Arrangement of Control and Methods for Detection of Listeria monocytogenes Bacteria in Food Products.
  - Fish, fish products and other sea foods
- 64 Instructions on Sanitary-Microbiological Control of Food Production from Fish and Marine Invertebrates. Leningrad, 1991
- 65 Methodological Instructive Regulations for the Control in Fish Products of Vibrio parahaemolyticus Agents of Food Toxicoinfection. Leningrad, 1991
- 66 Instructions on Sanitary-Microbiological Control of Mussels in their Areas of Cultivation, at Processing Plants and on Cleansing Mussels from Bacterial Contamination. Kerch, 1987
- 67 GOST 10444.15-94 Food Products. Methods for Quantity Measurement of Mesophilic Aerobic and Facultative Anaerobic Microorganisms.
- 68 GOST 30518-97 (GOST R 50474-93) Food Products. Methods for Finding and Quantity Measurement of Escherichia coli Bacteria (Coliform Bacteria).
- 69 GOST 30519-97 (GOST R 50480-93) Food Products. Method of Identifying Bacteria of the Genus Salmonella.
- 70 GOST 10444.12-88 Food Products. Yeast and Moulds Detection Methods.
- 71 GOST 10444.2-94 Food Products. Method of Finding and Detection of Staphylococcus aureus.
- 72 GOST 29185-91 Food Products. Methods for Finding and Quantity Measurement of Sulfite-reducing Clostridia.
- 73 GOST 28566-90 Food Products. Method for Finding and Quantity Measurement of Enterococci.
- 74 GOST 30726-2001 Food Products. Methods for Finding and Quantity Measurement of Bacteria of Species Escherichia coli.
- 75 MUK 4.2.1122-02 Arrangement of Control and Methods for Detection of Listeria monocytogenes Bacteria in Food Products.
  - Bread, flour and cereal products and confectionery
- 76 75. GOST 27543-87 Confectionery, Equipment, Materials, Reagents and Culture Media for Microbiological Analysis.
- 77 GOST 26968-86 Refined Sugar Sand. Methods of Microbiological Analysis.
- 78 Methodological Instructive Regulations MUK 4.2.762-99 Methods for Microbiological Control of Finished Products with Cream.
- 79 GOST 26972-86, Grains, Cereals, Flour, Oatmeal for Children Food Products. Methods of Microbiological Analysis.
- 80 GOST 10444.15-94 Food Products. Methods for Quantity Measurement of Mesophilic Aerobic and Facultative Anaerobic Microorganisms.
- 81 GOST R 50474-93 Food Products. Methods for Finding and Quantity Measurement of Escherichia coli Bacteria (Coliform Bacteria).
- 82 GOST 30519-97 (GOST R 50474-93) Food Products. Method of Identifying Bacteria of the Genus Salmonella.
- 83 GOST 30518-97 (GOST R 50474-93) Food Products. Yeast and Moulds Detection Methods.
- 84 GOST 10444.2-94 Food Products. Method of Finding and Detection of Staphylococcus aureus.
  - Vegetables, fruits, berries, mushrooms, their derived products and spices
- 85 84. Instructions on Microbiological Control of Fast-frozen Fruits and Vegetables. Gosagroprom of the USSR, dated 29.09.89.
- 86 Instructions on Sanitary-Microbiological Control of Dry and Fast-frozen Potato Products. Gosagroprom of the USSR, dated 20.11.84.
- 87 GOST 10444.15-94 Food Products. Methods for Quantity Measurement of Mesophilic Aerobic and Facultative Anaerobic Microorganisms.
- 88 GOST 30518-97 (GOST R 50474-93) Food Products. Methods for Finding and Quantity Measurement of Escherichia coli Bacteria (Coliform Bacteria).
- 89 GOST 30519-97 (GOST R 50480-93) Food Products. Method of Identifying Bacteria of the Genus Salmonella.
- 90 GOST 10444.12-88 Food Products. Yeast and Moulds Detection Methods.
- 91 GOST 10444.8-88 Food Products. Bacillus cereus Detection Methods.
- 92 Instruction on Epidemiology and Laboratory Diagnosis of Yersiniosis, Arrangement and Implementation of Prevention and Antiepidemic Measures. Ministry of Health of the USSR No. 15-6/042, 1990.
  - Oil and fat products
- 93 Instruction on Sanitary-Bacteriological Control over Production of Margarine and Mayonnaise at Enterprises of Margarine Industry. Gosagroprom of the USSR dated 21.11.88.
- 94 GOST 50173-92 Mayonnaise. Rules for Acceptance and Test Methods.
- 95 GOST 10444.12-88 Food Products. Yeast and Moulds Detection Methods.
- 96 MUK 4.2.577-96 Methods of Microbiological Control of Products for Children and Therapeutic Nourishment and their Components Oils for Children Food Products.

- 97 MUK 4.2.1122-02 Arrangement of Control and Methods for Detection of Listeria monocytogenes Bacteria in Food Products.
  - Beverages and fermentation products
- 98 GOST 30712-2001 Products of Soft Drinks Industry. Methods of Microbiological Analysis. International Standard.
- 99 Instructions on Microbiological Control over Production of Highly Resistant Soft Drinks, Gosagroprom of the USSR, IK 10-5031536105-91.
- 100 Instructions on Sanitary-Microbiological Control over Brewing and Soft Drink Production, Gosagroprom of the USSR, IK 10-04-06-140-87.
- 101 GOST 18963-73, Drinking Water. Methods of Sanitary and Bacteriological Analysis.
- 102 GOST 30519-97 (GOST R 50474-93) Food Products. Method of Identifying Bacteria of the Genus Salmonella.
- 103 Methodological Instructive Regulations on Detection and Identification of Pseudomonas aeruginosa in the Environment (Food Products, Water, Waste Liquids). Ministry of Health of the USSR, Moscow, 1984.
- 104 MUK 4.2.1018-01 Sanitary-Microbiological Analysis of Drinking Water. Moscow, 2001 Ready meals made at catering facilities and enterprises of food concentrates industry.
- 105 Methodological Instructive Regulations on Sanitary and Bacteriological Control at Catering and Food Products Trade Facilities (Moscow, 1984).
- 106 GOST 10444.15-94 Food Products. Methods for Quantity Measurement of Mesophilic Aerobic and Facultative Anaerobic Microorganisms.
- 107 GOST 30518-97 (GOST R 50474-93) Food Products. Methods for Finding and Quantity Measurement of Escherichia coli Bacteria (Coliform Bacteria).
- 108 GOST 30519-97 (GOST R 50480-93) Food Products. Method of Identifying Bacteria of the Genus Salmonella.
- 109 GOST 10444.12-88 Food Products. Yeast and Moulds Detection Methods.
- 110 GOST 10444.2-94 Food Products. Method of Finding and Detection of Staphylococcus aureus.
- 111 GOST 28560-90 Food Products. Methods of Identifying Bacteria of the Genera Proteus, Morganella, Providenscia.
- 112 GOST 30726-2001 Food Products. Methods for Finding and Quantity Measurement of Bacteria of the Species Escherichia coli.
- 113 MUK 4.2.1122-02 Arrangement of Control and Methods for Detection of Listeria monocytogenes Bacteria in Food Products.

Biologically active additives to food

- 114 MUK 4.2.577-96 Methods of Microbiological Control of Products for Children and Therapeutic Nourishment and their Components.
- 115 GOST 10444.15-94 Food Products. Methods for Quantity Measurement of Mesophilic Aerobic and Facultative Anaerobic Microorganisms.
- 116 GOST 30518-97 (GOST R 50474-93) Food Products. Methods for Finding and Quantity Measurement of Escherichia coli Bacteria (Coliform Bacteria).
- 117 GOST 30519-97 (GOST R 50480-93) Food Products. Method of Identifying Bacteria of the Genus Salmonella.
- 118 GOST 10444.2-94 Food Products. Method of Finding and Detection of Staphylococcus aureus.
- 119 GOST 10444.8-88 Food Products. Bacillus cereus Detection Methods.
- 120 GOST 10444.12-88 Food Products. Yeast and Moulds Detection Methods.
- 121 GOST 30726-2001 Food Products. Methods for Finding and Quantity Measurement of Bacteria of the Species Escherichia coli.

ConsultantPlus: note.

The Annex was not submitted for registration to the Ministry of Justice of the Russian Federation.

(Reference)

to SanPin 2.3.2.1078-01

# 12. RECOMMENDED BY THE JOINT FAO/WHO EXPERT COMMITTEE ON FOOD ADDITIVES AND CONTAMINANTS

# MAXIMUM PERMISSIBLE LEVELS OF RESIDUES OF VETERINARY (ZOOTECHNICAL) DRUGS IN FOOD PRODUCTS OF ANIMAL ORIGIN

Index	Drug Name	Type of Farm	Product	Maximum	ADI <4>
		Animals	Name	Permissible	(references)
				Levels of	
				Residues	
				(mg/kg, (1))	
1	2	3	4	5	6
1.	Growth-promoting	substances			
1.1	Estradiol-	cattle,	liver		0 - 0.05 (7)
			kidneys	-	
	1,0004 (1)	chickens	fat		
		CITTCKCIIS	140		
1.2	Progesterone <1>	cattle buck	liver	-	0 - 30 (7)
1	liogescerone (1)	lambs, chickens	kidneys		0 30 (7)
		Lambs, Chickens	fat		
1.3	Testosterone	cattle	liver	-	0 - 2 (7)
1.5	<1>	Cattle			0 - 2 (7)
	<1>		kidneys		
			fat		
1.4	Zeranol <3>	cattle	meat	0.002	0 - 0.5 (3)
			liver	0.01	
1.5	Trenbolon	cattle	meat	0.002	0 - 0.01 (3)
1.5	acetate	Cattle	liver	as beta-	0 - 0.01 (3)
	acetate				
			kidneys	trenbolon	
				0.01	
				0.01	
				as alpha-	
				trenbolon	
1.6	Carbadox	pigs	meat	0.005	-
			liver	0.03	(3)
				as	
				quinoxaline-2	
				carboxylic	
				acid	
1.7	Bovine	dairy cattle	milk		-
	somatotropins	_	meat	-	(6)
	<2>		liver		
			kidneys		
			fat		
1.8	Melengestrol	cattle	liver	0.002	0 - 0,3 (8)
	Acetate <3>		fat	0.005	-,- (-)
				l	

2.	Glucocorticoids					
2.1	Dexamethasone <3>	cattle, pigs	horses,	meat kidneys	0.0005 0.0005	0 - 0.015 (6)

			liver	0.0025	
		cattle	milk	0.0003	
3.	Tranquilizers		l		
3.1	Azaperone	pigs	meat	0.06	0 - 6 (6)
			fat liver kidneys	0.06 0.1 0.1 as sum of azaperone and azaperol	
4.	beta-Adrenocept	ors-blockers			
4.1.	Carazolol <3>	pigs	meat, fat	0.005	0 - 0.1 (7)
			liver kidneys	0.025 0.025	
5.	Antimicrobial a	gents			
5.1	Spectinomycin <3>	cattle, pigs, sheep, chickens	meat liver kidneys fat	0.5 2.0 5.0 2.0	0 - 40 (6)
		chickens	eggs	2.0	
		cattle	milk	0.2	
5.2.	Neomycin <3>	cattle	meat	0.5	0 - 60 (7)
		pigs, sheep, goats, ducks, turkeys, chickens chickens	liver kidneys fat milk meat liver fat eggs	15.0 20.0 0.5 0.5 0.5 0.5 0.5	
5.3.	Gentamycin <3>	cattle, pigs	meat	0.1	0 - 20 (6)
		cattle	fat liver kidneys milk	0.1 2.0 5.0 0.2	
5.4.	Ceftiofur	cattle, pigs	meat liver kidneys fat milk	1.0 2.0 6.0 2.0 0.1	0 - 50 (5)
				as desfuroil ceftiofur	
5.5.	Sulphadimidine <3>	cattle, sheep, pigs, poultry	meat liver kidneys fat	0.1 0.1 0.1 0.1	0 - 50 (3)

		cattle	milk	0.025	
5.6.	Flumequine	cattle, pigs,	meat	0.5	0 - 30
	<3>	sheep, chickens	liver kidneys fat	0.5 3.0 1.0	(8)
5.7.	Lincomycin <3>	cattle, pigs,	meat	0.1	0 - 30
		sheep, chickens	liver kidneys fat	0.5 1.5 0.1	(8)
		cattle	milk	0.15	
5.8.	Thiamphenicol	pigs	meat liver	0.05 0.1 0.5	0 - 5
			kidneys fat	0.05 as sum of thiamphenicol and thiamphenicol conjugates in terms of thiamphenicol	
5.9.	Danaflaurain (2)	cattle, chickens	meat	0.2	0 - 20
3.3.	Danotioxactii <32	pigs	liver kidneys fat meat liver kidneys	0.2 0.4 0.4 0.1 0.1 0.05 0.2	(5)
			fat	0.1	
5.10.	Spiramycin	cattle	meat liver kidneys fat milk	0.2 0.6 0.3 0.3	0 - 50 (5)
		chickens	meat	0.2	
			liver kidneys fat	0.6 0.8 0.3	
				as sum of spiramycin and neospiramycin	
		pigs	meat	0.2	
			liver kidneys fat	0.6 0.3 0.3 as spiramycin	
5.11.	Sarafloxacin <3>	Turkeys, chickens	meat liver kidneys fat	0.01 0.08 0.08 0.02	0 - 0.3
6.	Anthelmintic age	ents			

6.1.	Closantel <3>	sheep	meat	1.5	0 - 30
			liver	1.5	(3)
			kidneys	5.0	· - /
			fat	2.0	
		cattle	meat	1.0	
			liver	1.0	
			kidneys	3.0	
			fat	3.0	
6.2.	Ivermectin	cattle	liver	0.1	0 - 1
			fat	0.04	(8)
			milk	0.01	
				as 22, 23-	
				dihydroivermec tin B	
				la	
				(N B ) 2 1a	
6.3.	Flubendazole	pigs	meat	0.01	0 - 12
	<3>		liver	0.01	(3)
		poultry	meat	0.2	
			liver eggs	0.5	
6.4.	Tiabendazole	cattle, sheep,	meat	0.1	0 - 100
			liver	0.1	(5)
		goats, pigs	kidneys	0.1	,
			fat	0.1	
		cattle, goats	milk	0.1 as sum of tiabendazole	
				and 5-oxytia-	
				bendazole	
6.5.	Triclabendazole	cattle	meat	0.2	0 - 3
			liver	0.3	(1)
			kidneys	0.3	
			fat	0.1	
		sheep	meat	0.1	
		_	liver	0.1	
			kidneys	0.1	
			fat	0.1 as 5-chlorum-	
				6- 1 1 (2 ,3	
				, –	
				dichlorophenox	
				y)- benzimidazole-	
				2-oh)	
6.6.	Levamizole <3>	cattle, sheep	meat	0.01	0 - 6
			kidneys	0.01	(2)
		pigs, poultry	fat	0.01	
6.7.	Febantel,	cattle, sheep	liver	0.1	0 - 7
0.7.	fendendazole	caccio, sheep		0.1	(6)
	and oxfendazole	pigs, horses	kidneys fat	0.1	(0)
		goats	liver	0.5	
		cattle	milk	0.1	
				as sum of	
				fenbendazole,	
				oxfendazole and	
				oxfendazole	
				sulphone in	
				terms of oxfendazole-	
				oxiendazole- sulphone	
		I		Pathuoue	

1	1	1	1	1	1
	Moxidectin <3>	cattle	meat	0.02	0 - 2
. 8					(6)
9					(0)
		deer	meat	0.02	
		sheep	meat	0.05	
			liver	0.1	
		sheep	kidneys	0.05	
6 0		7	fat	0.5	2 2 5
6.9.	Doramectin <3>	cattle	meat	0.02	0 - 0.5
					(7)
		pigs	meat	0.005	
		cattle, pigs	liver	0.1	
		caccie, prys	kidneys	0.03	
			fat		
6.10.	71	00++10	liver	0.15	0 - 1
6.10.	Abamectin	cattle	liver	0.1	0 - 1
			kidneys	0.05	(4)
			fat	0.1	
				as avermectin	
				B 1 alpha	
				D I dipila	
6.11.			m o o t	0.1	0 - 10
0.11.	Eprinomectin	cattle	meat	0.1	0 - 10
			liver	2.0	(6)
			kidneys	0.3	
			fat	0.25	
			milk	0.02 as	
				eprinomectin	
				B 1 alpha	
7.	Antiprotozoal ad	gents		D i dipila	
7.1.	Diclazuril	sheep, rabbits	s. meat	0.5	0 - 30
	<3>	poultry			
		Lourer A	liver	3.0	(6)
			kidneys	2.0	
			fat	1.0	
7.2	Imidocarb <3>	cattle	meat	0.3	0 - 10
			liver	2.0	(6)
			kidneys	1.5	(3)
			fat	0.05	
			milk	0.05	
			III.T.T.V.	0.00	
8.	Trypanocidal age	ents			
8.1.	Izometamidium <3	> cattle	meat	0.1	0 - 100
		, ( <del>-</del>			
			fat	0.1	(3)
			milk	0.1	
			liver	0.5	
			kidneys	1.0	
•	•	•	•		ı.

8.2.	Diminazene <3>	cattle	meat	0.5	0 - 100
			liver	12.0	(2)
			kidneys	6.0	
			milk	0.15	
9.	Insecticides				
9.1.	Cyhalothrin <3>	cattle, pigs,	meat	0.02	0 - 2
		sheep	liver	0.02	(8)
			kidneys	0.02	
			fat	0.4	
		cattle	milk	0.03	
9.2.	Dicyclanil <3>	sheep	meat	0.2	0 - 7
	_		liver	0.4	(8)
			kidneys	0.4	(0)
			fat	0.15	
9.3.	Trichiorfon <3>	cattle	meat	0.05	0 - 20
			liver	0.05	(8)
			kidneys	0.05	
			milk	0.05	
9.4.	Deltamethrin <3>	cattle, sheep,	meat	0.03	0 - 10
		chickens	liver	0.05	(7)
			kidneys	0.05	
			fat	0.5	
		cattle	milk	0.03	
		chickens	eggs	0.03	•
9.5.	Phoxim <3>	cattle, pigs,	meat	0.05	0 - 4
		sheep, goats	liver	0.05	(7)
			kidneys	0.05	
			fat	0.4	
		cattle	milk	0.01	

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#### Note:

<1> Joint FAO/WHO Expert Committee recommends to carry out an analysis of residual quantities of sex hormones and progesterone in liver, kidneys and fat, but maximum permissible levels of residues of these steroids are not given.

<2> Refers to complete analogues of bovine somatotropin (BST), obtained by genetic engineering, - agents of a very high purity degree (practically without impurities): somagrebove, sometribove, somavubove and somidobove. Due to considerable difference between bovine somatotropin and human somatotropin by chemical composition, physicochemical, immunological properties and specific peculiarity, and also on the basis of evaluation of single agents the Committee considers the presence of possible bovine somatotropin residues in food products to be harmless for human health, therefore there is no need to set maximum levels of residues of these agents. It is suggested to use additional evaluation methods of animal breeding products based on analysis of somatotropin-dependent somatomedins.

- <3> Specified maximum levels of residues are given for original product.
- <4> ADI Acceptable daily intake in mg/kg of human body mass.

ConsultantPlus: note.

The Annex was not submitted for registration to the Ministry of Justice of the RF.

# 13. BASIC PRINCIPLES USED IN THE DEVELOPMENT OF SPECIFIC ACTIVITY PERMITTED IN FOOD PRODUCTS AND HYGIENE ASSESSMENT OF COMPLIANCE WITH THE ESTABLISHED STANDARDS

- 13.1. The standards relate to 90Sr and 137Cs as leading radionuclides of technogenic origin determining the internal radiation dose for food route of entry. Contribution to the dose from entry of 90Sr and 137Cs with basic food products should not exceed 1 mSv/year.
- 13.2. A value of 1 mSv/year is the level of interference exception when trading in food products.
- 13.3. The actual average Russian diet dated 1996 was used in the calculations, the data for 1992—1996 were given for comparison. (Table 1).

Per capita Consumption of Food Products, g per day

Table 1

i ci capita o	onsumption	011 000 1 1001	acio, g per auy		
PRODUCTS	1992	1993	1994	1995	1996
Bread and bread products (in terms of flour)	286.0	293.0	276.0	279.0	266.0
Milk and dairy products <*>	563.5	586.6	584.5	478.8	450.8
Potato	293.0	309.0	309.0	309.0	296.0
Vegetables and gourds	214.0	210.0	194.0	227.0	214.0
Meat and meat products	158.0	158.0	158.0	145.0	132.0
Fish and fish products	32.9	29.6	23.0	26.3	26.3
Fruit and berries	78.9	85.5	82.2	82.2	85.5
Total	1626.3	1671.7	1626.7	1547.3	1470.6

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- 13.4. For food products which are consumed in minor quantities (by weight) the following assumptions were made:
- The dose due to their consumption is outside the dose of 1 mSv/year;
- Limiting the dose due to the consumption of such individual product shall be up to 1% and a total dose quota for all the products consumed in minor quantities should not exceed 10% (0.1 mSv/year).
- 13.5. Due to the fact that these Sanitary Rules are intended to limit the radiation of the population in situations of long-term residual radioactive contamination, while calculating the dose coefficient per entry unit for 90Sr the population of Russia with account of its age structure was taken as the reference population for which the radiation doses are calculated. The effective dose coefficient (e) for the population of Russia is 3.6 x 10 Sv/Bq.
- 13.6. To determine the compliance of food products with radiation safety criteria the compliance indicator V was used, the value of which is calculated according to results of measuring the specific activity of 90Sr and 137Cs in the sample:

V = (A/N) 90Sr + (A/N) 137Cs, where

A means the measured value of the specific activity of 90Sr and 137Cs in the food product, Bq/kg; N means the permissible level of specific activity for 90Sr and 137Cs in the same product, Bq/kg.

13.7. Control over the specific activity of food products and the hygienic assessment are carried out in accordance with the effective methodological instructive regulations for taking of samples, analysis, and hygienic assessment for radiation control of strontium-90 and cesium-137 in food products.

ConsultantPlus: note.

The Annex was not submitted for registration to the Ministry of Justice of the Russian Federation.

Annex 14 (Reference) to SanPiN 2.3.2.1078-01

<*> Without butter.

- 14.1. Packaged food products must have a label (an insert), which are marked to specify the indicators of nutritional value, which is characterized by the energy value (calorific value) and mass fraction of nutrient materials in 100 g (or a single serving of a meal) of the product.
- 14.2. The nutritional value shall not be specified for flavoring food products (tea, coffee, vinegar, spices, salt, etc.), raw food products (meat, poultry, fish, vegetables, berries, fruit etc.), as well as for unpackaged ready-to-eat culinary products, baked products and products of public catering.
- 14.3. The data on the content of proteins, fats, carbohydrates and energy value shall be given in case if their quantity in single servings of a meal or in 100 g (ml) of the food product is not less than 2%, and for mineral and vitamins not less than 5% of the recommended daily intake.
- 14.4. The data required to calculate the food product contribution to the satisfaction of daily consumption of a hypothetical "average" adult person and to be specified in the label are shown in Table 1 compiled with account of the Standards of Physiological Requirements for Nutrient Materials and Energy (1991) and the recommendations of FAO/WHO.

Table 1
Estimated Physiological Requirement for Major Nutrient Materials and Energy to be Specified in the Tabel

Main Nutrient Materials	Daily Requirement
Energy value, kcal	2500
Proteins, g	75
Fats, g	83
including polyunsaturated fatty acids, g	11
Digestible carbohydrates, g	365
including sugar (saccharose)	65
Food fibers, g	30

Mineral substances, mg	
Iron	14
Iodine	0.15
Zinc	15
Selenium	0.07
Calcium	1000
Magnesium	400
Phosphorus	1000
Potassium	3500
Vitamins:	
A (in retinol equivalent), μg	1000
$B_1$ (thiamine), mg	1.5
B ₂ (riboflavin), mg	1.8
B ₆ , mg	2.0
Bc (folic acid), μg	200
B ₁₂ (cobalamin), μg	3
C (ascorbic acid), mg	70
D, μg	5 <1>
E (in tocopherol equivalent),	10
mg PP (на niacin equivalent), mg	20

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Note: <1> - 5 µg of cholecalciferol are 200 ME of vitamin D.

14.5. The content of cholesterin, saturated fatty acids and salt (in terms of sodium) shall be limited in accordance with the recommendations of FAO/WHO (Table 2), which shall also be specified in the label, including in % of the permissible daily intake.

Permissible Intake of Some Nutrient Materials

Table 2

Nutrient Material	Permissible Intake
Saturated fatty acids, not more than, g	25
Cholesterin, not more than, mg	300
Sodium, not more than, mg	2400
	(not more than 6.15 g of edible salt)

14.6. In all cases of enrichment of food products in proteins, fats, carbohydrates, minerals, vitamins, pro- and prebiotics the information on their quantities shall be provided with account of their natural content in the product.

- 14.7. For products with a complex composition of raw materials of meat, fish or dairy origin with partial replacement or addition of protein or fat products of other origin the information on the composition of fat and protein components shall be specified in the label. In this case the name of the food product must not mislead consumers about the composition and nutritional value of the product.
  - 14.8. In alcoholic beverages the alcohol content in % of volume shall be specified.
- 14.9. The indicators of nutritional value of food products shall be determined by the manufacturer (technical documentation writer). To determine the nutritional value the methods may be used which are presented in Guidance on the Methods of Analysis of the Food Products Quality and Safety under the editorship of I.M. Skurikhin, V.A. Tutelyan (Moscow, 1998) as recommended by the Ministry of Health and Social Development of the Russian Federation.

It is allowed to apply the calculation method with account of the formulation and data on the composition of raw materials from the effective official Reference Books (Tables of the Chemical Composition of Food Products).

14.10. To calculate the energy value of food products it is recommended to use the following coefficients:

Proteins - 4 kcal/g,

Carbohydrates - 4 kcal/g,

Fats - 9 kcal/g,

organic acids - 3 kcal/g,

alcohol (ethanol) - 7 kcal/g.

When the alcohol strength in % of volume generally accepted in the industry is recalculated to calorific value the following formula shall be used: calories (from ethanol) = product volume/100 x strength (% of vol.)  $\times$  0.8 x 7.

14.11. To calculate the protein content in food products the following formula shall be used: protein = total Kjeldahl nitrogen x K,

where K means the conversion factor corresponding to the food product (Guidance on the Methods of Analysis of the Food Products Quality and Safety under the editorship of I.M. Skurikhin, V.A. Tutelyan (Moscow, 1998)).

For food products with a complex composition of raw materials and for those food products the conversion factor of which is not determined it shall be accepted that K = 6.25.

ConsultantPlus: note.

The Annex was not submitted for registration to the Ministry of Justice of the Russian Federation.

Annex 15 (Reference) to SanPiN 2.3.2.1078-01

#### 15. BRIEF DESCRIPTION OF MAIN TYPES OF CHILDREN FOOD

#### 15.1. Products of children food on milk basis

These products include, first of all, breast milk substitutes intended for mixed and artificial feeding of children. Breast milk substitutes are high quality products manufactured primarily on the basis of cow milk, soy proteins and other products with the composition corresponding to that of breast milk to the maximum, and thus adapted to the peculiarities of metabolism, functional status and immunoreactivity of children of the first year of life.

To characterize the nutritional value of a breast milk substitute the special indicators are used reflecting the following:

- Bioavailability of the protein component of the product;
- The nutritional value of fats (linoleic acid content, the ratio of omega-3 and omega-6 fatty acids, the ratio of polyunsaturated fatty acids/vitamin E);
  - The nutritional value of carbohydrates;
  - Mineral and vitamin composition;
  - The value of osmolality (osmolarity) and potential water-salt load on the kidneys.

Patterns of the child's development at the early stages of ontogeny and related changes in demand for nutrient materials and energy were the reason for the development of 2 variants of adapted infant formula:

- For children from 0 to 3 months;
- For children from 3 to 12 months.

However, in children nourishment one may use partly adapted formulas, including domestic and foreign formulas of previous generations, as well as formulas for children of the second half year of life (the so-called following formulas).

The recommended composition of these formulas is specified in the respective sections.

Dry and liquid, lenten and fermented milk formulas may be developed based on the recommended composition. Bifidus bacteria and lactic acid bacilli, acidophilous bacteria, etc. may be used as starter cultures for fermented milk formulas. The acidity of adapted fermented milk formulas does not exceed 70 degrees T.

It is advisable to further enrich the breast milk substitutes intended for feeding children during the first months of life in protective factors (lysozyme, bifidus bacteria, etc.), because children of this age are characterized by an immature immune response and their immunological status is largely determined by the factors of immunological resistance contained in breast milk.

Along with the indicators of nutritional value the safety indicators are of the utmost importance to breast milk substitutes.

To produce the adapted formulas the cow milk as well as other components specially designed for the production of children food should be used.

Another group of children food milk-based products is liquid and pasty dairy products made from whole cow milk: milk, fermented milk products, curds. These products are used in feeding of children of the first year of life as complementary food, as well as of children from one to three years. In describing the nutritional value of these products special attention shall be drawn to the standardization of their content of protein and fat. The acidity of liquid dairy products shall not exceed 70—100 degrees T and of pasty dairy products — 150 degrees T.

#### 15.2. Grain-based complementary foods

These products include flour (from different cereals) for children food, dry milk porridge, as well as special-purpose soluble cookies and pasta for children food.

The cereal component is included into the diet of children of the first year of life from 4.5—5 months as an additional source of energy and new carbohydrates (starch and food fibers), vegetable protein, certain vitamins and mineral salts. In accordance with the international guidelines grain complementary foods (flour and dry porridge) should be enriched in calcium, iron and essential vitamins.

The most modern form of manufacture of these products is instant flour and dry porridge, which do not require cooking to prepare from them ready-to-eat meals (milk porridge). This group of products represented in a separate section is characterized by much more stringent requirements for microbiological standards than porridges that require cooking.

The safety of complementary foods on grain and grain and milk basis is mainly determined by the safety of the main raw materials — cereals and flour as well as milk. The cereals and flour specially designed for feeding infants are used to manufacture the products of children food on the grain basis. Their composition may also include sugar, maltodextrine, honey, vegetable oils, natural flavors (vanillin, dry powders of fruits and vegetables).

#### 15.3. Complementary foods on the basis of fruits and vegetables

These products include canned fruit, berry, vegetable and mixed juices and purees. These products are used as complementary foods (usually the first ones) from 3—4 months of life. The nutritional value of these products is determined by the content of digestible carbohydrates, mineral salts (potassium, iron), vitamins (C, P, bioflavonoids, beta-carotene), food fibers. An important indicator is also the total acidity, which does not exceed 0.8%, and the refinement of the canned foods (homogenized, finely refined, largely refined canned foods).

Along with these products this group includes the canned foods with a complex composition of the raw materials - canned foods made from vegetables, grain and meat and vegetables, grain and fish. The nutritional value of these canned foods has been increased due to the combination of several food products groups — meat (fish), vegetables and grains that complement each other with a set of nutrients.

The safety of canned fruits and vegetables is determined mainly by the safety of the raw materials, first of all, fruits and vegetables, as well as additional components.

#### 15.4. Meat-based complementary foods

These include canned foods based on beef, pork and horse meat with the addition of by-products, and canned foods based on poultry. They are used for children nourishment at the age of 7—8 months, and in case of medical recommendations at an earlier age.

The nutritional value of canned foods is determined by their content of proteins with high biological value, fats, vitamins A,  $B_1$ ,  $B_2$ ,  $B_6$ ,  $B_{12}$ , iron.

#### 15.5. Fish-based complementary foods

These include canned fish for children food. They are used at the age of 8—9 months of life 1—2 times a week. The nutritional value of canned fish is determined by the availability of proteins with high biological value, fats (containing deficient in the human diet omega-3 fatty acids), vitamins  $B_1$ ,  $B_6$ ,  $B_{12}$ , iron and some minor nutrients.

#### 15.6. Products for children of preschool and school age

These products are intended mainly for the organized catering in the respective institutions. However, they may be used at home.

The advisability of using these special-purpose products with enhanced biological and nutritional value for children and adolescents depends on the necessity to improve the nourishment, to eliminate the deficiency of some nutrients, first of all, mineral salts, including minor nutrients, which occurs as a result of the current adverse socio-economic and environmental living conditions.

15.7. The nutritional value of food products for therapeutic nourishment of children

The nutritional value of food products for therapeutic nourishment of children is determined by two criteria.

Firstly, by the most complete satisfaction of the basic physiological needs of children in nutrient materials and energy. These requirements are common to food products intended for healthy and sick children and have been discussed in detail in the section on food products for healthy children above.

Secondly, by the effectiveness of therapeutic action of food products, which is determined either by elimination or, vice versa, enrichment of the product in various nutrient materials according to their designated purpose and nature of the metabolic disorders for each particular disease or group of diseases.

In accordance with these criteria the content of macro-and micronutrients which must satisfy the child's needs to the maximum when the product is used as the main nourish source (such as products for premature babies, for children with food allergies) refers to the number of indicators of nutritional value of children food.

For products for therapeutic nourishment, which composition is modified in accordance with the pathogenetic principle of diet therapy, the criterion may be the degree of elimination of some components (e.g., removal of lactose from products for children with malabsorption syndrome, removal of allergens from products for children with food allergies, etc.).

ConsultantPlus: note.

The Annex was not submitted for registration to the Ministry of Justice of the Russian Federation.

Annex 16 (Reference) to SanPiN 2.3.2.1078-01

#### 16. MAIN REGULATORY REFERENCE

- 16.1. Federal Law On the Quality and Safety of Food Products dated January 2, 2000, No. 29-FZ.
- 16.2. Federal Law On Sanitary and Epidemiological Welfare of the Population dated March 30, 1999 No. 52-FZ.
- 16.3. Fundamentals of the Legislation of the Russian Federation on the Citizens' Health Care dated July 22, 1993.
  - 16.4. Federal Law On Radiation Safety of Population dated January 9, 1996.
- 16.5. Federal Law On Amendments to the Law of the Russian Federation On Protection of Consumers' Rights and the Code of Administrative Offences of the RSFSR dated January 9, 1996.
- 16.6. Resolution of the Government of the Russian Federation dated September 29, 1997 No. 1263 On Approval of the Regulations on Carrying out Expert Examination of Low-quality and Dangerous Food Staples and Food Products, their Use or Destruction.
- 16.7. Resolution of the Government of the Russian Federation dated July 24, 2000 No. 554 On the State Sanitary and Epidemiological Service of the Russian Federation.
- 16.8. Resolution of the Government of the Russian Federation dated December 21, 2000 No. 987 On State Supervision and Control over Assurance of Food Products Quality and Safety.
- 16.9. Resolution of the Government of the Russian Federation dated December 21, 2000 No. 988 On State Registration of New Food Products, Materials and Goods.
- 16.10. Order of the Ministry of Health and Social Development of the Russian Federation No. 89 dated March 26, 2001 On State Registration of New Food Products, Materials and Goods, Perfumes and Cosmetics, Oral Hygiene Preparations and Goods, Tobacco Products.
- 16.11. MUK 2.3.2.970-00 Medical-Biological Evaluation of Food Products Derived from Genetically Modified Sources.
  - 16.12. MUK 2.3.2.721-98 Determination of Safety and Efficacy of Biologically Active Additives to Food.
- 16.13. Resolution of the Chief State Sanitary Inspector of the Russian Federation dated 08.11.2000 No. 14 On Procedure of the Sanitary-Epidemiological Expert Examination of Food Products Derived from Genetically Modified Sources.
- 16.14. Social Status and Standard of Living in Russia. Goskomstat of Russia. Moscow, 1997, Pp. 135, 147.
  - 16.15. ICRP 82 Protection of the Publicn Situation of Prolonged Radiation Exposure, 1999, P. 41.
  - 16.16. WHO Technical Report Series No. 832, 1993.
  - 16.17. WHO Technical Report Series No. 851, 1995.

- 16.18. Codex Alimentarius, v. 3, Rome, 1996.
- 16.19. WHO Technical Report Series No. 876, 1998.
- 16.20. WHO Technical Report Series No. 879, 1998.
- 16.21. WHO Food Additives Series No. 41, Geneva, 1998.
- 16.22. WHO Food Additives Series No. 43, Geneva, 2000.
- 16.23. WHO Food Additives Series No. 45, Geneva, 2000.

Annex 17 (Reference) to SanPiN 2.3.2.1078-01, approved by Resolution No. 36 of the Chief State Sanitary Inspector of the RF dated November 14, 2001

# THE RECOMMENDED CONTENT OF PROTEINS, FATS AND CARBOHYDRATES IN CERTAIN FOOD PRODUCTS

(introduced by Amendments and Additions No. 2 approved by Resolution No. 41 of the Chief State Sanitary Inspector of the RF dated 15.04.2003)

Index	Product Name	Protein	Fat	Carbohydrat es	Notes
		g in 100 g of	the product		
1	2	3	4	5	6
2.1.1. Meat and poultry	derived products				
2.1.1.1.	Sausage products				
2.1.1.1.1.	Cooked sausages	Not less than 11	Not more than 30	Less than 2	
2.1.1.1.2.	Frankfurters and small sausages	Not less than 10	Not more than 30	Less than 1	
2.1.1.1.3.	Meat breads	Not less than	Not more than 30	Less than 2	
2.1.1.1.4.	Cooked and smoked sausages	Not less than 16	Not more than 38	Less than 1	
2.1.1.1.5.	Semismoked sausages	Not less than 16	Not more than 45	Less than 1	

2.1.1.1.6.	Uncooked smoked sausages	Not less than 20	Not more than 50	Less than 1	
2.1.1.1.7.	Pork products	Not less than 10	Not more than 50	Less than 1	
2.1.1.2.	Canned meat				
2.1.1.2.1.	Canned beef	Not less than 17	Not more than 17	Less than 1	
2.1.1.2.2.	Canned lamb	Not less than 16	Not more than 15	Less than 1	
2.1.1.2.3.	Canned pork	Not less than 15	Not more than 32	Less than 1	
2.1.1.2.4.	Canned poultry	Not less than 16	Not more than 18	Less than 1	
2.1.2.	Dairy products				
2.1.2.1.	Curds	Not less than 14	Not more than 18	-	
2.1.2.2.	Processed cheese	Not less than 15	Not more than 32	-	
2.1.3.	Fish products	•			•
2.1.3.1.	Canned fish				
2.1.3.1.1.	Natural	Not less than 19	Not more than 8	Less than 1	
2.1.3.1.2.	In oil	Not less than 17	Not more than 23	Less than 1	
2.1.4.	Fat products	•			
2.1.4.1.	Butter (sweet butter)		Not less than 72		No vegetable or cooking fats

# FORMS OF VITAMINS AND MINERAL SALTS PERMITTED TO BE USED IN PRODUCTION OF SPECIAL-PURPOSE FOOD PRODUCTS FOR SPORT NUTRITION

(introduced by Amendments No. 14 approved by Resolution No. 28 of the Chief State Sanitary Inspector of the RF dated 05.05.2009)

Name	Form
I	Vitamins
Vitamin A	Retinol, retinyl acetate; retinyl palmitate; beta- carotene
Vitamin D	Ergocalciferol; cholecalciferol
Vitamin E	D-alpha-tocopherol; DL-alpha-tocopherol; D-alpha-tocopherol acetate; DL-alpha-tocopherol acetate, DL-alpha-tocopherol palmitate; D-alpha-tocopherol succinate; DL- alpha-tocopherol succinate; DL-gamma-tocopherol
Vitamin B ₁	Thiamine bromide; thiamine chloride; thiamine mononitrate
Vitamin B ₂	Riboflavin; sodium riboflavin 5'- phosphate
Vitamin PP (niacin)	Nicotinamide; nicotinic acid and its salts
Vitamin B ₆	Pyridoxine hydrochloride; pyridoxine-5- phosphate; pyridoxal, pyridoxamine and its phosphates, pyridoxine dipalmitate
Pantothenic acid	D-calcium pantothenate; D-sodium pantothenate; dexpanthenol
Vitamin B ₁₂	Cyanocobalamin; methylcobalamin, hydroxocobalamin
Folic acid	Folic acid (pteroylmonoglutamic)
Vitamin C	L-ascorbic acid; L-sodium ascorbate; L-calcium ascorbate; 6- palmityl-L-ascorbic acid (ascorbyl-palmitate); potassium ascorbate
Vitamin K	phylloquinone
Biotin	D-biotin
Choline	Choline chloride, choline citrate; choline bitartrate
Inosite	Inosite
Carnitine	L-carnitine; L-carnitine hydrochloride; acetyl-L-carnitine; L-carnitine tartrate; L-carnitine chlorhydrate

Calcium	Calcium carbonate; calcium chloride; calcium salts of citric acid; calcium gluconate, calcium glycerophosphate; calcium lactate; calcium salts of orthophosphoric acid; calcium sulphate; calcium oxide; calcium hydroxide
Sodium	Sodium salts of citric acid; sodium chloride; sodium carbonate; sodium bicarbonate; sodium gluconate; sodium lactate; sodium salts of orthophosphoric acid; sodium sulfate; sodium tartrate; sodium hydroxide
Magnesium	Magnesium acetate; magnesium carbonate; magnesium salts of citric acid; magnesium chloride; magnesium gluconate; magnesium salts of orthophosphoric acid; magnesium sulphate; magnesium lactate; magnesium glycerophosphate; magnesium amino-acid complexes; magnesium oxide; magnesium hydroxide
Potassium	Potassium salts of citric acid; potassium lactate; potassium salts of orthophosphoric acid; potassium gluconate; potassium glycerophosphate; potassium glycerophosphate; potassium citrate; potassium carbonate; potassium bicarbonate; potassium hydroxide
Iron	Iron gluconate; iron sulphate; iron lactate, iron fumarate; iron succinate; iron diphosphate (pyrophosphate); sodiumiron diphosphate; iron citrate; ammonium iron citrate; iron carbonate; iron orthophosphate; iron saccharate; iron amino-acid complexes; elemental iron
Copper	Copper carbonate, copper citrate, copper gluconate, copper sulphate; copper amino-acid complexes
Zinc	Zinc acetate; zinc carbonate; zinc sulphate; zinc chloride; zinc citrate; zinc lactate; zinc gluconate; zinc amino-acid complexes; zinc oxide
Manganese (MnI)	Manganese carbonate, manganese chloride, manganese citrate, manganese gluconate, manganese sulphate, manganese glycerophosphate, manganese amino-acid complexes
Phosphorus	phosphoric acid and sodium, potassium, calcium and magnesium salts of phosphoric acid
Iodine	Potassium iodide, sodium iodide, potassium iodate, sodium iodate, iodine casein
Selenium	Sodium selenate, sodium selenite; monosubstituted sodium selenite; selenium dioxide; selenium amino-acid complexes
Chrome (CrII)	Chrome (III) chloride; chrome (III) sulphate; chrome amino- acid complexes; chrome picolinate; chrome nicotinate
Molybdenum (Mo VI)	Ammonium molybdate; sodium molybdate; molybdenum amino-acid complexes

# THE LIST OF FOOD PRODUCTS RECOMMENDED TO BE ENRICHED IN VITAMINS AND MINERAL SUBSTANCES

(Introduced by Amendments and Additions No. 22 approved by Resolution No. 177 of the Chief State Sanitary Inspector of the RF dated 27.12.2010)

Food products group	Micronutrient recommended for enrichment
1	2
1. Wheat flour of top and first grade	Vitamins: $B_1$ , $B_2$ , $B_6$ , PP, folic acid, C (processing aid) Mineral substances: iron, calcium
2. Bread and bakery products	Vitamins: $B_1$ , $B_2$ , $B_6$ , PP, folic acid, betacarotene Mineral substances: iron, calcium, iodine
3. Dairy products (dairy products, dairy compound products, products containing milk, milk devired products)	Vitamins: C, A, E, D, K, beta-carotene, $B_1$ , $B_2$ , $B_6$ , PP, $B_{12}$ , folic acid, pantothenic acid, biotin Mineral substances: iron, calcium, iodine
4. Soft drinks	Vitamins: C, A, E, D, K, beta-carotene and other carotenoids, B ₁ , B ₂ , B ₆ , PP, B ₁₂ , folic acid, pantothenic acid, biotin Mineral substances: iodine, iron, calcium
(including berries) and	Mineral substances: iodine, iron, calcium
	Vitamins: C, A, E, D, beta-carotene, $B_1$ , $B_2$ , $B_6$ , PP, $B_{12}$ , folic acid, pantothenic acid, biotin Mineral substances: iron, calcium, iodine
7. Fat-and-oil products (vegetable oils, margarines, spreads, mayonnaise, sauces)	Vitamins: A, E, D, beta-carotene
8. Food concentrates(kissels, instant drinks, ready-to-eat meals)	Vitamins: C, A, E, D, K, beta-carotene, $B_1$ , $B_2$ , $B_6$ , PP, $B_{12}$ , folic acid, pantothenic acid, biotin Mineral substances: iodine, iron, calcium, magnesium, potassium
9. Confectionary	Vitamins: C, A, E, beta-carotene, $B_1$ , $B_2$ , $B_6$ , PP, folic acid Mineral substances: iodine, iron, calcium, magnesium

10. Fruit and berry concentrates with addition of sugar or other sweetening agents (confiture, jam, marmalade, jelly, fruit icecream etc.)	Vitamins: C, A, E, beta-carotene, B ₁ , B ₂ , B ₆ , PP, folic acid Mineral substances: iodine, iron, calcium
12. Edible salt	Mineral substances: iodine, fluorine <*>, potassium, magnesium

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<*> For territories with deficiency of this element.

Annex No. 20 to SanPiN 2.3.2.2804-10

# CRITERIA FOR RANGING OF A FOOD PRODUCT IN THE CATEGORY OF FOOD PRODUCTS ENRICHED IN VITAMINS AND/OR MINERAL SUBSTANCES

(introduced by Amendments and Additions No. 22 approved by Resolution No. 177 of the Chief State Sanitary Inspector of the RF dated 27.12.2010)

Food Products Group	Weight (Volume) of Food Product which must Contain not less than 15% and not more than 50% of Standard Physiological Need in a Micronutrient.
Wheat flour of top and first grade	100 g
Bread and bakery products from wheat flour of top and first grade and rye and wheat flour	150 g
Liquid dairy products, liquid protein products from seed corn, pulse crops etc. (soymilk)	200 ml
Solid and pasty dairy products and protein products from seed corn, pulse crops etc. (tofu)	100 g
Juice products from fruits (including berries) and (or) vegetables, soft drinks, including ones prepared from food concentrates	300 ml
Dry grain products (breakfast cereals, ready-to-eat extruded products, instant pasta and cereals goods)	50 g
Fat-and-oil products, confectionary, hard rennet cheese, canned foods and vegetable, fruit, berry concentrates and food concentrates	
lodine-treated edible salt	1—2 g
Edible salt	5 g

# MAXIMUM PERMISSIBLE LEVELS OF RESIDUES OF VETERINARY (ZOOTECHNICAL) DRUGS IN FOOD PRODUCTS OF ANIMAL ORIGIN CONTROLLED ACCORDING TO INFORMATION ON THEIR USAGE IN FOOD RAW MATERIAL MANUFACTURING PROCESS

(introduced by Amendments and Additions No. 22, approved by Resolution No. 177 of Chief State Sanitary Inspector of the RF dated 27.12.2010 as amended by Amendments No. 24, approved by Resolution No. 79 of Chief State Sanitary Inspector of the RF dated 01.06.2011)

Index	Drug Name	Type of Farm Animals	Product Name	Maximum Permissibl e Levels of Residues (mg/kg, max) <*>	Notes
1	2	3	4	5	6
1.	Antimicrobial agents	<**>			
1.1	Apramicin (aminoglycosides)	All types of livestock for	Meat, fat	1	
		slaughter and poultry	liver	10	
			kidneys	20	
1.2	Gentamycin (aminoglycosides)	all types of livestock for	Meat, fat	0.05	
	slaughter	liver	0.2		
			kidneys	0.75	
		cattle	Milk	0.1	
1.3	Kanamycin (aminoglycosides)	All types of livestock for slaughter and poultry, except fish	Meat, fat	0.1	

			liver	0.6	
			kidneys	2.5	
			Milk	0.15	
1.4	Neomycin  All types of livestock for slaughter, including poultry and fish of pond and cage cultur fishery	All types of	Meat, fat	0.5	Including framycetin
		Eggs and liquid egg products	0.5		
			Kidneys	5	
			liver	0.5	
			Milk	1.5	1
1.6	Paromomycin (aminoglycosides)	All types of livestock for	Meat	0.5	
	poultry an pond and c	slaughter, including poultry and fish of pond and cage culture fishery	kidneys	1.5	
1.7	7 Spectinomycin (aminoglycosides) All types of livestock for slaughter, including poultry and fish of pond and cage cultur fishery except sheep	= =	Fat	0.5	
			Meat	0.3	
			Kidneys	5	
		Beef liver	1		
		Sheep	Milk	0.2	
			Fat	0.5	
		Meat	0.3		
		Kidneys	5		
			Liver	2	
			Milk	0.2	

1.8	Streptomycin/	All types of	Meat	0.5	
	Dihydrostreptomycin	livestock for	Fat	0.5	
	(aminoglycosides)	slaughter	Liver	0.5	
			Kidneys	1	
		Poultry	Eggs and egg	0.5	
			products		
1.9	Ceftiofur	All types of	meat	1.0	Amount of all residues
	(cephalosporins)	slaughter mammals,	liver	2.0	containing ß - lactam
		poultry	kidneys	6.0	structure represented
			fat	2.0	as desfuroil-ceftiofur
			milk	0.1	
			IIIIIK	0.1	
1.10	Cefacetrile	cattle	Milk	0.125	In case of intra-
	(cephalosporins)				udder use
1.11	Cefalexin	cattle	Milk	0.1	
T • T T	(cephalosporins)	Cattle	LITTY		
	(Cepharosporins)		Meat	0.2	
			Fat	0.2	
			Kidneys	1	
			liver	0.2	
1.12	Cefalonium	cattle	milk	0.02	
	(cephalosporins)				
1.13	Cefoperazone	cattle	Milk	0.05	
	(cephalosporins)				
1.14	Cefquinome	Cattle, pigs, horses	Meat,	0.05	
T • T I	(cephalosporins)	Caccie, pigs, noises			
	(Copilarosportino)		skin,	0.05	
			fat,	0.05	
			liver	0.1	
			kidneys	0.2	
			milk	0.02	
1.15	Cefapirin	cattle	Meat,	0.05	Amount of cefapirin
	(cephalosporins)		1	0.05	and desacetyl-

		1	kidneys	0.1		
'	'	'	'		'	

			Milk	0.01	
1.16.	All substances of	All types of	Meat,	0.1	Amount of all
	sulfanilamide group (sulfanilamides)	livestock for slaughter and poultry	fat, liver,	0.1	residues of this group shall not
			kidneys	0.1	exceed the Maximum
		Cattle	Milk	0.025	Permissible Levels (MPL)
		Sheep			(MPL)
		Goats			
1.17.	Baquiloprium (diamino pyrimidine	Cattle	fat	0.01	
	derivatives)		liver	0.3	
	delivatives)		kidneys	0.15	
			milk	0.03	
		pigs	skin and fat	0.04	
			liver	0.05	
			kidneys	0.05	
1.18.	Trimethoprim	All types of	meat	0.05	
	(diaminopyrimidine	livestock for	liver	0.05	
	derivatives)	slaughter and	kidneys	0.05	
		poultry, except	fat	0.05	
		horses			
			milk	0.05	
		Horses	meat	0.1	
			liver	0.1	
			kidneys	0.1	
			fat	0.1	
1.19.		Cattle, pigs	Meat	0.1	
	beta-lactamases inhibitors)		Fat (for pigs - skin and fat)	0.1	
			liver	0.2	
			kidneys	0.4	
		Cattle	milk	0.2	-
1.20	Lincomycin /	All types of	meat	0.1	
	Clindamycin	livestock for	fat, skin	0.05	
	(lincosamides)	slaughter and poultry	T		

I	I	1	]	Ī	j i
			liver	0.5	
			kidneys	1.5	
			milk	0.15	
			eggs and	0.05	
			liquid egg		
			products		
1.21	Pirlimycin	all types of	meat	0.1	
	(lincosamides)	livestock for	liver	1	
		slaughter and poultry	kidneys	0.4	
			milk	0.1	
1.22	Thiamphenicol	all types of	Meat (for fish	0.05	As sum of
	(florfenicols)	livestock for	- in adequate		thiamphenicol and
		slaughter, including	ratio with		thiamphenicol
		poultry and fish of	skin)		conjugates in terms
		pond and cage culture			of thiamphenicol
		fishery	liver(except	0.05	
			fish)		
			kidneys(except	0.05	
			fish)		
			Fat (for pigs	0 05	
			and poultry -	0.00	
			in natural		
			ratios with		
			skin)		
			milk	0.05	
1.23	Florfenicol	Cattle and small	meat	0.2	Amount of florfenicol
	(florfenicols)	cattle	liver	3	and its metabolites
			fat	0.2	in the form of
			kidneys	0.3	florfenicol amine
		Pigs	meat	0.3	
		1 1 1 2 3			
			liver	2	
			kidneys	0.5	
			fat, skin	0.5	
		Poultry	meat	0.1	
		I			

			liver	2.5	
			kidneys	0.75	
			fat, skin	0.2	
		Fish of pond and cage	Meat (in	1	
		culture fishery	natural ratios		
		_	with skin)		
		Other types of animals	meat	0.1	
			fat	0.2	
			liver	2	
			kidneys	0.3	
1.24	Flumequine (quinolones)	Cattle and small cattle, pigs	meat liver kidneys fat milk	0.2 0.5 1.5 0.3 0.05	
		Poultry	meat	0.4	
		-	liver kidneys fat, skin	0.8 1 0.25	
		Fish of pond and cage culture fishery	Meat (in natural ratios with skin)	0.6	
		Other types of	meat	0.2	
		animals	liver	0.5	
			kidneys	1	
			fat	0.25	
1.25	Ciprofloxacin / enrofloxacin / Pefloxacin / ofloxacin / norfloxacin (fluoroquinolones)	All types of livestock for slaughter, including poultry and fish of pond and cage culture fishery	Meat Fat (for pigs - in natural ratios with skin)	0.1	Sum of fluoroquinolones

		Cattle and small cattle	Milk	0.1	
			Liver	0.3	
			Kidneys	0.2	
		Poultry	Liver	0.2	
			Kidneys	0.3	
			Skin	0.1	
		Pigs, rabbits	Liver	0.2	
			Kidneys	0.3	
1.26	Sarafloxacin	Turkeys, chickens	Meat	0.01	
	(quinolones)		Liver	0.1	
			Kidneys	0.1	
			Skin and fat	0.01	
		Fish of pond and cage culture fishery		0.03	
			natural ratios with skin)		
1.27	Danofloxacin	Cattle and small	Meat	0.2	
1.27	(quinolones)				
	(quinoiones)	cattle, pourtry	Liver	0.4	
			Kidneys	0.4	
			Fat (for		
			poultry - skin and fat)	0.1	
			Milk	0.03	
		livestock for slaughter, including fish of pond and cage	ratios with	0.1	
		culture fishery	Liver Kidneys Fat (for pigs - in natural ratios with skin)	0.2 0.2 0.05	

1.28.	Difloxacin	Cattle	and	small Meat	0.4	
		cattle				

	(quinolones)	1	Liver	1.4	
	_		Kidneys	0.8	
			_	0.1	
		Pigs	Meat	0.4	
			Liver	0.8	
			Kidneys	0.8	
			Skin and fat	0.1	
		Poultry	Meat	0.3	
			Liver	1.9	
			Kidneys	0.6	
			Skin and fat	0.4	
			Meat (for fish		
			- in natural		
		slaughter, including			
		fish of pond and cage	skin)		
		culture fishery			
				0.8	
			Kidneys	0.6	
1 00			Fat	0.1	
1.29.	Marbofloxacin	learner, Learner		0.15	
	(quinolones)		Fat (for pigs - in natural		
			ratios with		
			skin)		
			SKIII)		
			Liver	0.15	
				0.15	
		1	_	0.075	
1.30	Oxolinic acid		Meat (for fish		
	(quinolones)		- in natural		
		slaughter, including	ratios with		
		poultry and fish of	skin)		
		pond and cage culture		0.15	
				0.15	
			Fat (for pigs	0.05	
			and poultry -		
			skin and fat		
			in natural		
			ratios)		

Erythromycin (macrolides)	poultry and fish of	skin)	0.2	
	fishery	Liver	0.2	
		Kidneys	0.2	
		Fat (for pigs - in natural ratios with skin)	0.2	
		Milk	0.04	1
		Eggs and liquid Egg products	0.15	
Spiramycin (macrolides)	Cattle	Meat Fat Liver Kidneys Milk	0.2 0.3 0.3 0.3 0.2	Amount of spiramycin and neospiramycin
	Chickens	Meat Skin and fat Liver	0.2 0.3 0.4	
	Pigs	Meat Liver Kidneys Fat	0.25 2 1 0.3	equivalents of spiramycin (residues with antimicrobial activity)
Tilmicosin (macrolides)	Poultry	Meat skin and fat liver	0.075 0.075 1	
	(macrolides)  Spiramycin (macrolides)  Tilmicosin	(macrolides)  livestock for slaughter, including poultry and fish of pond and cage culture fishery  Spiramycin (macrolides)  Cattle  Chickens  Pigs  Tilmicosin  Poultry	(macrolides)  livestock for slaughter, including poultry and fish of pond and cage culture fishery  Liver  Kidneys Fat (for pigs - in natural ratios with skin)  Milk Eggs and liquid Egg products  Spiramycin (macrolides)  Cattle  Cattle  Meat Liver Kidneys Fat Liver Kidneys Fat (for pigs - in natural ratios with skin)  Milk Eggs and liquid Egg products  Cattle  Meat Liver Kidneys Milk  Chickens  Meat Skin and fat Liver Kidneys Fat  Tilmicosin (macrolides)  Poultry  Meat Skin and fat	Cattle   Cattle   Cattle   Cattle   Chickens   Cattle   Chickens   Cattle   Chickens   Cattle   Chickens   Cattle   Chickens   Cattle   Chickens   Cattle   Chickens   Cattle   Chickens   Cattle   Chickens   Cattle   Chickens   Cattle   Chickens   Cattle   Chickens   Cattle   Chickens   Cattle   Chickens   Cattle   Chickens   Cattle   Chickens   Cattle   Chickens   Cattle   Chickens   Cattle   Chickens   Cattle   Chickens   Cattle   Chickens   Cattle   Chickens   Cattle   Chickens   Cattle   Chickens   Cattle   Chickens   Cattle   Chickens   Cattle   Chickens   Cattle   Chickens   Cattle   Chickens   Cattle   Chickens   Cattle   Chickens   Cattle   Chickens   Cattle   Chickens   Cattle   Chickens   Cattle   Chickens   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cattle   Cat

			kidneys	0.25	
		Other types of livestock for slaughter, including fish of pond and cage culture fishery	Meat (for fish in natural ratios with skin) Liver Kidneys Fat (for pigs - in natural ratios with skin)	0.05 1 1 0.05	
			Milk	0.05	
1.34.	Tylosin (macrolides)		Meat (for fish - in natural ratios with	0.1 0.1 0.1 0.1	As tylosin A
			skin) Eggs Milk	0.2	
1.35.	Tylvalosin(macrolides)	Pigs	Meat Fat and skin Liver Kidneys	0.05 0.05 0.05 0.05	Amount of tylvalosin and 3-0-acetyltylosin
		Poultry	Meat Fat and skin Liver	0.05 0.05 0.05	
1.36.	Tulathromycin (macrolides)	Cattle	Fat liver	0.1	(2R, 3S, 4R, 5R, 8R, 10R, 11R, 12S, 13S,

Î		kidneys	3	14R) - 2-ethyl-
				3,4,10,13-
				tetrahydroxy-
				3,5.8,10,12,14 -
				hexamethyl - 11-
				[[3,4.6-trideoxi-3-
				$(dimethylamino) - \beta - D -$
				xylo- hexopyranosil]
				oxy]-1-oxa-6-
				azacilopent-decan -15-
				one, represented as
				equivalents of
				tulathromycin

		Pigs	Skin and fat	0.1	
			Liver	3	
			Kidneys	3	
1.37.	Tiamulin	Pigs, rabbits	Meat	0.1	Amount of metabolites
	(pleuromutilins)		Liver	0.5	that may be
		Chickens	Meat	0.1	hydrolyzed in 8-α-
			Skin and fat	0.1	hydroximutilin
			Liver	1	
			Eggs and liquid egg products	1	
		Turkeys	Meat	0.1	
			Skin and fat	0.1	
			Liver	0.3	
1.38.	Valnemulin	Pigs	Meat	0.05	
	(pleuromutilins)		Liver	0.5	
			kidneys	0.1	
1.39.	Rifaximin/Rifampicin (ansamycins)	All types of livestock for slaughter, including poultry and fish of pond and cage culture fishery	meat	Since 01.01.2012	rifaximin
		Cattle	milk	0.06	
				l	

		Bees	honey	Since 01.01.2012	
1.40.	Colistin (polymyxins)	All types of livestock for slaughter, including poultry and fish of pond and cage culture fishery	ratios with skin)	0.15 0.15 0.2 0.05 0.3	
1.41.	Bacitracin (polypeptides)	Cattle Rabbits	milk Meat Fat Liver kidneys	0.1 0.15 0.15 0.15 0.15	Amount of bacitracins A, B, C, including, in the form of zinc-bacitracin
1.42.	Novobiocin Avilamycin (orthozomycins)	Cattle Pigs, fowl, rabbits	milk Meat Fat Liver Kidneys	0.05 0.05 0.1 0.3	Dichloroizo-evernyn acid
1.44.	Monensin (ionophores)	Other types of livestock for slaughter and poultry, except broilers, turkeys	Meat Fat Liver Kidneys milk Liver	0.002 0.01 0.03 0.002 0.002	monensin A

			Other products	0.002	
1.45.	Lasalocid (ionophores)	Poultry	Meat Skin and fat Liver Kidneys eggs	0.02 0.1 0.1 0.05 0.15	lasalocid A
		Other types of livestock for slaughter, including fish of pond and cage culture fishery	Milk	0.001	Sodium-lasalocid
			Kidneys Other products	0.05	
1.46.	Nitrofurans (including furazolidone)	All types of livestock for slaughter, including poultry and fish of pond and cage culture fishery, bees	Meat Skin and fat Liver Kidneys eggs milk honey	0.001	Shall become effective since 01.01.2012
	=	o. 24, approved by Reso	olution No. 79	of Chief St	ate Sanitary Inspecto
or rise	RF dated 01.06.2011)				
1.47.	Metronidazole / dimetridazole ronidazole / dapsone / clotrimazole / aminitrizole	All types of livestock for slaughter, including poultry and fish of pond and cage culture fishery, bees	Meat Skin and fat Liver Kidneys eggs milk honey	Since 01.01.2012	not allowed for products of animal origin at the level of methods identification
	Metronidazole / dimetridazole ronidazole / dapsone / clotrimazole /	livestock for slaughter, including poultry and fish of pond and cage culture	Skin and fat Liver Kidneys eggs milk		products of animal origin at the level of methods

| Eggs | 0.7

			Milk	0.7	
1.49.	Doxiciclin	Cattle	Meat	0.1	
	(tetracyclines)		Liver	0.3	
	(		Kidneys	0.6	
		Pigs, fowl	Meat	0.1	
			Skin and fat	0.3	
			Liver	0.3	
			Kidneys	0.6	
1.50.	Benzylpenicillin/	All types of	Meat (for	0.05	
	Penethamate	livestock for	fish - in		
	(penicillin group)	slaughter, including	natural		
		poultry and fish of	ratios with		
		pond and cage culture	skin)		
		fishery	Fat (for pigs	0.05	
			and poultry -		
			in natural		
			ratios with		
			skin)		
			Liver	0.05	
			Kidneys	0.05	
1.51.	Ampicillin	All types of	Meat (for	0.05	
	(penicillin group)	livestock for	fish - in		
		slaughter, including	adequate		
		poultry and fish of	ratio with		
		pond and cage culture	skin)		
		fishery			
			Fat	0.05	
			Liver	0.05	
			Kidneys	0.05	
			Milk	0.004	
1.52.	Amoxicillin(penicill	All types of	Meat (for	0.05	
	in group)	livestock for	fish - in		
	in group,	slaughter, including			
		poultry and fish of	ratio with		
		pond and cage culture			
		fishery			
			Fat	0.05	
			Liver	0.05	
			Kidneys	0.05	
			Milk	0.004	

1.53.	Cloxacillin (penicillins)	All types of livestock for slaughter, including	Meat Fat Liver	0.3 0.3 0.3	
		poultry and fish of pond and cage culture fishery	Kidneys Milk	0.3	
1.54.	Dicloxacillin (penicillins)	All types of livestock for slaughter, including poultry and fish of pond and cage culture fishery	Meat Fat Liver Kidneys Milk	0.3 0.3 0.3 0.3	
1.55.	Nafcillin (penicillins)	All types of ruminant animals	Meat Fat Liver Kidneys Milk	0.3 0.3 0.3 0.3	
1.56.	Oxacillin (penicillins)	All types of livestock for slaughter, including poultry and fish of pond and cage culture fishery	Meat Fat Liver Kidneys Milk	0.3 0.3 0.3 0.3	
1.57.	Phenoximethylpenicil lin(penicillin group)	Pigs	Meat Liver Kidneys Meat Skin and fat	0.025 0.025 0.025 0.025 0.025	
			Liver Kidneys	0.025 0.025	

2.	Antiprotozoal agents <**>					
2.1.	Diclazuril	sheep	meat	0.5	as diclazuril	
		rabbits	liver	3.0		
			kidneys	2.0		
			fat	1.0		
		Poultry (broiler	meat	0.5		
		chickens, turkeys for	liver	3		
		fattening up),pigs	kidneys	2		
			fat, skin	1		
			Eggs	0.002		
		livestock for	Liver	0.04		
		slaughter, including	Lider			
		fish of pond and cage culture fishery	Kidneys	0.04		
		culture fishery	otner products	0.005		
2.2.	Imidocarb	cattle	meat	0.3	as imidocarb	
			Fat	0.05		
			Liver	2		
			Kidneys	1.5		
			Milk	0.05		
		Sheep	meat	0.3		
			Fat	0.05		
			Liver	2		
			Kidneys	1.5		
2.3.	Toltrazuril	All types of	Meat	0.1	Toltrazuril sulfone	
		productive mammals	Fat	0.15		
		Fowl	Liver	0.5		
			Kidneys	0.25		
			Meat	0.1		
			Skin and fat	0.2		
			Liver	0.6		
			Kidneys	0.4		
2.4.	Nicarbazin	Broiler chickens	Meat	0.2	as N, N'-bis (4- nitrofenil) urea	
			Liver	0.2		
			Kidneys	0.2		
	1		Fat, skin	0.2		
					1	

2.5.	Amprolium	Other types of livestock for slaughter, including fish of pond and cage culture fishery  Broiler chickens, turkeys	Eggs Milk Liver Kidneys Other products Meat Skin and fat Liver Kidneys Eggs	0.1 0.005 0.1 0.1 0.025 0.2 0.2 0.2 0.4 1	
2.6.	Robenidine	All types of livestock for slaughter, fish and poultry, except broilers, turkeys and rabbits for fattening up		0.025 0.05 0.05 0.05 0.05	Robenidine hydrochloride
2.7.	Semduramicin	All types of livestock for slaughter, including fish of pond and cage culture fishery, except broiler chickens	All types of products	0.002	
2.8.	Narasin	All types of livestock for slaughter, including fish of pond and cage culture fishery, except broiler chickens	Eggs Milk Liver Other products	0.002 0.001 0.05 0.005	
2.9.	Maduramicin	All types of livestock for slaughter, including fish of pond and cage culture fishery, except broiler chickens and turkeys	All types of products	0.002	

2.10	· Salinomycin	All types	of Liver(except	0.005	Salinomycin sodium
		livestock fo	or rabbit's		
		slaughter, includi	ng liver)		
		poultry, fish of por	nd		
		and cage cultu:	re		
		fishery, excep	ot		
		broiler chickens a	nd		
		rabbits for fattening	ng		
		up			

2.11.	Halofuginone	All types of livestock for slaughter, including poultry, fish of pond and cage culture fishery, except broiler chickens, turkeys and cattle, except dairy cattle		0.01 0.025 0.03 0.03 0.006 0.001	
2.12.	Decoquinate	All types of livestock for slaughter, including poultry, fish of pond and cage culture fishery, except broiler chickens, cattle and small cattle, except dairy cattle	All types of products	0.02	

1	2	3	4	5	6
3.1.	Cyhalothrin	cattle, pigs, sheep	meat	0.02	as cyhalothrin
		, , , , , , , , , , , , , , , , , , , ,	liver	0.02	
			kidneys	0.02	
			fat	0.4	
		cattle	milk	0.03	
3.2.	Dicyclanil	sheep	meat	0.2	Amount of dicyclanil
	_		liver	0.4	and 2,4,6-triamino-
			kidneys	0.4	pyrimidine-5-
			fat	0.15	carbonitrile
3.3.	Trichlorfon	cattle	milk	0.05	as trichlorfon
	(Metrifonate)				
	(iicciiicc)				
3.4.				0.03	as deltamethrin
3.4.	Deltamethrin	cattle, sheep,	meat	0.03	as deltamethrin
		chickens	liver	0.05	
			kidneys	0.05	
			fat	0.5	
		Cattle, chickens	milk	0.03	
		fish (salmon)	eggs	0.03	
		(30111)	meat	0.03	
3.5.	Phoxim	sheep, goats	meat	0.05	as phoxim
			liver	0.05	
			kidneys	0.05	
			fat	0.4	
		pigs	Meat	0.02	
			Skin and fat	0.7	
			Liver	0.02	
			Kidneys	0.02	
		chickens	Meat	0.025	
			Skin and fat	0.55	
			Liver	0.05	

1			Kidneys	0.03	
			Eggs	0.06	
3.6.	Cyfluthrin	cattle, goats	Meat	0.01	as cyfluthrin (sum of
		, ,	Fat	0.05	isomers)
			Liver	0.01	
			Kidneys	0.01	
			Milk	0.02	
3.7.	Cypermethrin and	All ruminant animals	meat	0.02	Cypermethrin (sum of
	Alpha-Cypermethrin		Fat	0.2	isomers)
			Liver	0.02	·
			Kidneys	0.02	Muscles and skin of
			Milk	0.02	fish in natural
		Salmon	meat	0.05	ratios
3.8.	Fluazuron	cattle	meat	0.2	
			liver	0.5	
			kidneys	0.5	
			fat	7.0	
3.9.	Amitraz	Cattle	Fat	0.2	Amount of amitraz and
			Liver	0.2	all metabolites,
			Kidneys	0.2	containing 2,4-
			Milk	0.01	dimethoxyamphetamine
		Sheep	Fat	0.4	(2,4-DMA) group
			Liver	0.1	represented as
			Kidneys	0.2	amitraz
			Milk	0.01	
		Goats	Fat	0.2	
			Liver	0.1	
			Kidneys	0.2	
			Milk	0.01	
		Pigs	Skin and fat	0.4	
			Liver	0.2	
			Kidneys	0.2	
		Bees	honey	0.2	

## Note:

<*> Maximum permissible levels of residues of antimicrobial agents for fat, liver and kidneys do not apply to fish.
<***** Control over all drugs included in Index No.1 "Antimicrobial Agents", except streptomycin / dihydrostreptomycin, agents of sulfanilamide group</p> (sulfanilamides), antibiotics of tetracycline group, bacitracin in meat, liver, kidneys, penicillin group, Index No.2 "Antiprotozoal Agents", Index No.3 "Insecticides" - from the moment of approval of identification methods.