

DATA SHEET (Tender Bellakt)**Oil containing DHA “Maris DHA OIL”****No. 2.0, 20.08.2020****Description**

Maris DHA Oil is a natural triglyceride oil, rich in DHA (docosahexaenoic acid). It is freshly extracted from carefully selected food grade marine raw materials. The oil's refining includes high pressure vacuum deodorization for full contaminant removal. All along the manufacturing process, steps are taken to prevent the formation of undesirable oxidation products.

Sensory Properties

Parameter	Specification	Result	Method
Appearance at 25°C	Homogenous liquid without sediment or solids	Conform	internal sensory
Color	Yellowish	Conform	
Odor	Mild, free from foreign notes	Conform	internal sensory panel
Taste	Mild, free from foreign notes	Conform	internal sensory panel

Chemical Profile

Parameter	Unit	Specification	Typical Value	Method
Acid value	mg KOH/g	≤ 0.6	0.2	NS090216
Peroxide value	meq/kg	≤ 6	0.44	NS090225
Total content of omega-3 fatty acids	%	≥ 30	36,35	NS090236
Docosahexaenoic Acid (DHA)	%	23 – 30%	27,48	NS090236
Ratio of DHA (22:6) to EPA (20:5)	%	≥ 4.0	4,73	

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Refined tuna oil, mix of tocopherol formulation and ascorbyl palmitate

Contaminants

Parameter	Unit	Specification	Method
Sum dioxins WHO PCDD/PCDF	pg TEQ/g	≤ 1.75 (0,00000000175 mg/g)	NS090260
Benzo-a-pyrene	µg/kg	< 2 (0,002 mg/kg)	NS090266
Sum PAH-4	µg/kg	< 10 (0,01 mg/kg)	NS090269
Arsenic	mg/kg	< 0.1	NS090252
Cadmium	mg/kg	< 0.1	NS090253
Mercury	mg/kg	< 0.1	NS090255
Lead	mg/kg	< 0.1	NS090254
Radioactivity (iodine-, caesium isotopes)	Bq/kg	According to EU Regulation (Euratom) 2016/52, Annex I	NF M 60-790-6 & 8
Aflatoxin B1	mg/kg	< 0.005	HPLC
Trans fatty acids	%	< 2.0	HPLC
HCCH (α , γ , β -isomers)	mg/kg	< 0.05	HPLC
DDT and its metabolites	mg/kg	< 0.1	ELISA

Microbial

Parameter	Unit	Specification	Method
Total plate count 30°C, aerobic	cfu/g	≤ 1000	ISO 4833 1&2
Enterobacteriaceae	10x10g	absent	ISO 21528-1&2
Moulds	cfu/g	≤ 25	NS090243
Yeasts	cfu/g	absent	ISO 6611
S. aureus	1g	absent	NS090246
Salmonella	25g	absent	NS090244
Bacillus cereus	cfu/g	absent	ISO 6579
Pseudomonas Aeruginosa	10g	absent	ISO/TS 11059:2009
E. Coli	cfu/g	absent	ISO 11866-1&2 ISO 16649-1&2
Mesophilic aerobic & facultative anaerobic micro organisms	cfu/g	5×10^2	ISO 4833 1&2

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	Unit	Per 100g of sample
Energy	kJ	3700
Calories	kcal	900
Protein	g	0.0
Fat	g	100
Saturated Fat	g	33.7
Monounsaturated Fat	g	22.1
Polyunsaturated Fat	g	39.9
Trans Fat	g	0.1
Total Carbohydrates	g	0.0
Sugars	g	0.0
Dietary Fiber	g	0.0
Sodium	mg	0.0
Potassium	mg	0.0
Calcium	mg	0.0
Water Content	g	0.0
Ash	g	0.0

Fatty Acid Composition**Saturated Fatty Acids**

	Parameter	Typical Value in %
14:0	Myristic acid	3.0
16:0	Palmitic acid	18.0
18:0	Stearic acid	4.8
20:0	Arachidic acid	0.3
22:0	Behenic acid	0.2
24:0	Tetracosanoic acid	0.2

Mono-Unsaturated Fatty Acids

	Parameter	Typical Value in %
14:1	Myristoleic acid	0.1
16:1 n-7	Palmitoleic acid	5.4
18:1 n-9	Oleic acid	12.5
22:1 n-9	Erucic acid	0.1

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	Parameter	Typical Value in %
18:2 n-6	Linoleic acid	1.1
18:3 n-3	Alpha-Linolenic acid	0.5
18:3 n-6	Gamma-Linolenic acid	0.4
18:4 n-3	Stearidonic acid	1.0
20:2	Eicosadienoic acid	0.2
20:4 n-3	Eicosatetraenoic acid	0.5
20:4 n-6	Arachidonic acid	1.7
20:5 n-3	Eicosapentaenoic acid	5.7
22:5 n-3	Docosapentaenoic acid	1.0
22:6 n-3	Docosahexaenoic acid	27.0

Allergen / Intolerance

01 Milk and products thereof (incl. lactose)	No	
02 Eggs and products thereof	No	
03 Soy beans and products thereof	No	Natural tocopherols from highly refined soy bean oil distillates*
04 Cereals containing gluten (i.e. wheat, rye barley, oats, spelt, kamut or their hybridized strains) and products thereof	No	
05 Fish and products thereof	Yes	Contains highly refined tuna oil without fish proteins
06 Crustaceans and products thereof	No	
07 Nuts i.e. Almond ((Amygdalus cojjuinid L.), Hazelnut (Corylus avellana), Walnut (Juglans regia), Cashew (Anacardium occidentale), Pecan nut (Carya illinoiesis (Wangenh.) K.Koch), Brazil nut (Bertholletia excelsa), Pistachio nut (Pistacia)	No	
08 Peanuts and products thereof	No	
09 Sesame seeds and products thereof	No	
10 Sulphur dioxide and sulphites at concentrations of more than 10 mg/kg or 10mg/litre expressed as SO ₂	No	
11 Celery and products thereof	No	
12 Mustard or products thereof	No	
13 Lupine and products thereof	No	
14 Molluscs and products thereof	No	

*Allergen labelling exemptions for:

European Union Directive 2003/13/EC as amended (list acc. to Annex IIIa)

US Food Allergen Labelling and Consumer Protection Act (FALCPA)

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Health Canada Amendments of Food Allergen Labelling Regulations 2011
Australian and New Zealand Food Standards Code (Std. 1.2.3)

Packaging

Maris DHA Oil is available in 190kg and 5kg plastic containers.

Shelf life

Maris DHA Oil may be stored for 24 months from the date of manufacture in the unopened original packaging in dry, cool conditions at max. 20° C.

GMO Status

This product is non-GMO by origin and does not need to be labeled, as GMO or produced from GMO, according to EC regulations 1829/2003/EC and 1830/2003/EC.

Halal Status

This product is Halal certified. Halal certification upon request.

Kosher Status

Maris DHA Oil ED0222N is not Kosher certified. But an alternative DHA oil can be offered Kosher certified by Orthodox Union.

Country of Origin

Made in China.

Remarks: The foregoing product specification is understood as a product information / product description based on our present knowledge and experience, and does not constitute a specification agreement in a legally binding sense. In view of the great variety of possible uses, any specific characteristics of our products and / or their suitability for any specific purpose of use cannot be guaranteed and shall neither be understood to imply any binding assurance of specific properties or quality, nor do we accept any liability for the information contained in the document.