



CHENNAI METTEX LAB PRIVATE LIMITED®

Jothi Complex, 83, M.K.N. Road, Guindy, Chennai - 600 032, Tamil Nadu, INDIA
Phone : +91 44 22323163, 22311034, 42179490, 42179491 | CIN : U74999TN2008PTC069459

Email : test@mettexlab.com | Web : www.mettexlab.com

TC-5589



FORM VII A

REPORT OF THE FOOD ANALYST

[Refer rule 2.4.2(5) and 2.4.4 (6)]



Discipline : Chemical

Product Group : 2.9: SALT, SPICES, CONDIMENTS AND RELATED PRODUCTS

Subgroup : 2.9.15 (a) : BLACK PEPPER WHOLE

Product Name : NORMAL BLACK PEPPER WHOLE

ULR No : TC558925000001444F

Lab Ref No. : 25084682

To

**Food Safety and Standards Authority of India (FSSAI),
FDA Bhawan, Kotla Marg,
Near Bal Bhavan, Mandi House,
New Delhi, Delhi - 110002.**

Report No. : CML/24-25/75835

Certified that I, Dr. D.Sathiya Narayanan - Food Analyst duly appointed under the provisions of Food Safety and Standards Act, 2006 (34 of 2006), for "Chennai Mettex Lab Private Limited, Chennai" received from "Food Safety and Standards Authority of India (FSSAI), FDA Bhawan, Kotla Marg, Near Bal Bhavan, Mandi House, New Delhi, Delhi – 110002.", a sample of "NORMAL BLACK PEPPER WHOLE" bearing QR Code number xSOGRh and TAG number AG1475 on 27.12.2024 for analysis.

The condition of seals on the container was good and the Outer Covering on receipt was as follow:

Intact

I found the sample to be 2.9.15 (a) NORMAL BLACK PEPPER WHOLE falling under item No 2.9 : SALT, SPICES, CONDIMENTS AND RELATED PRODUCTS of Chapter 2 of Food Safety and Standards Regulations. The sample was in a condition fit for analysis and has been analysed on 27.12.2024 - 08.01.2025 and the result of its analysis is given below.

Analysis Report:-

- | | | |
|--------------------------|---|--|
| (i) Sample Description | : | NORMAL BLACK PEPPER WHOLE |
| (ii) Physical Appearance | : | Dried mature seed of characteristic colour, aroma, flavour; free from mustiness; free from mould, living & dead insects, insect fragments, rodent contamination. |
| (iii) Labelling Details | : | Product Name : Black Pepper Whole; Batch No : (GN) 10/2024; Pkd Date : 19/10/2024; Use By : 17/08/2025; Net Wt : 50g; Manufactured & Mkd by: Available; Vegetarian Symbol is given; Nutrition Information is given; FSSAI Logo & license Number is printed on the label. |



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SI.NO	Quality Characteristics	Nature of Method of Test Used	Result	Prescribed Standards as per 2.9.15 (a) of the Food Safety and Standards (Food Product Standards and Food additives) & Food Safety and Standards (Contaminants, Toxins and Residues) Regulation, 2011
1	Quality Parameters Discipline : Chemical			Group : Food & Agricultural Products
	Moisture , % by weight	FSSAI 10.003: 2021	10.49	Not more than 13.0
	Total ash on dry basis, % by weight	FSSAI 10.006: 2021	4.71	Not more than 7.0
	Acid insoluble ash on dry basis, % by weight	FSSAI 10.007: 2021	0.45	Not more than 1.5
	Volatile oil content on dry basis, ml/100gm	FSSAI 10.013: 2021	2.56	Not less than 1.0
	Non-volatile ether extract on dry basis, % by weight	FSSAI 10.012: 2021	7.05	Not less than 6.0
	Piperine content on dry basis, % by weight	FSSAI 10.022: 2021	4.27	Not less than 2.0
	Bulk Density (gm/litre) g/l	FSSAI 10.018: 2021	521.1	Not less than 400
	Light Berries, % by weight	FSSAI 10.019: 2021	BDL (DL : 0.1)	Not more than 10.0
	Extraneous vegetable matter (organic (chaff, stems, straw) and inorganic (dust, dirt, stones and lumps of earth), % by weight		BDL (DL : 0.1)	Not more than 2.0
	Foreign matter, % by weight		BDL (DL : 0.01)	Not more than 0.5
	Mouldy berries, % by weight		BDL (DL : 0.1)	Not more than 3.0
	Insect defield berries/Corns, % by weight		BDL (DL : 0.1)	Not more than 2.0
	Mammalian or/and other excreta, % by weight		BDL (DL : 0.1)	Not more than 2.0
	Pinheads, % by weight		BDL (DL : 0.1)	Not more than 4.0
	Diameter, mm	CML/LAB/F/HS/SOP-01: 2023	2.26	Not less than 2.0
	Papaya seeds	FSSAI 10.024: 2021	Negative	Shall be negative
	Test for added coloring matter	FSSAI Manual - Food Additives : 2016	Negative	Shall be negative
	Physical Examination			
	Foreign odour, flavours, other harmful substances, Dirt, dust, straw, insect, damaged seeds, other seeds, rodent hair and excreta.	CML/LAB/F/PE/SOP-01	Absent	Shall be free from Foreign odour, flavours, other harmful substances, Dirt, dust, straw, insect, damaged seeds, other seeds, rodent hair and excreta.
2	Crop contaminants Discipline : Chemical			Group : Residues & Contaminants in Food & Agricultural Products
	Aflatoxin B ₁	AOAC 2005.08 : 2023	BDL (DL : 0.4 µg/kg)	Not more than 15 µg/kg
	Total Aflatoxins		BDL (DL : 0.4 µg/kg)	Not more than 30 µg/kg
3	Metal Contaminants			
	Lead as Pb	FSSAI Manual of Methods of Analysis of Foods Metals : 2016	0.59 mg/kg	Not more than 10 mg/kg
	Copper as Cu		7.24 mg/kg	Not more than 30 mg/kg
	Arsenic as As		BDL (DL : 0.05 mg/kg)	Not more than 5.0 mg/kg
	Mercury as Hg		BDL (DL : 0.05 mg/kg)	Not more than 1.0 mg/kg
	Tin as Sn		BDL (DL : 0.05 mg/kg)	Not more than 250 mg/kg
	Cadmium as Cd		BDL (DL : 0.05 mg/kg)	Not more than 1.5 mg/kg

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5	Pesticide Residues			
	2,4-Dichlorophenoxy Acetic Acid		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Acephate (expressed as mixture of Methamidophos and acephate)		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Acetamiprid		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Alachlor		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Alpha cypermethrin		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Alpha naphthyl Acetic Acid		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Ametrotradin		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Anilophos		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Atrazine		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Azimsulfuron		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Azoxystrobin		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Benfuracarb		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Sum of benomyl and carbendazim expressed as carbendazim		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Bensulfuron Methyl		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Beta Cyfluthrin		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Bifenthrin		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Bitertanol		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Buprofezin		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Butachlor		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Captan		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Carbaryl		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Carbendazim		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Carbofuran		ND (DL : 0.002 mg/kg)	Not more than 0.01* mg/kg
	Carbosulfan		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Carfentrazone Ethyl		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Carpropamid		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Cartap Hydrochloride		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Chlorantraniliprole		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Chlorfenapyr		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Chlorfluazuron		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Chlorimuron ethyl		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Chlormequat Chloride (CCC)		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Chlorothalonil		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Chlorpropham		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Chlorpyriphos		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Chlothianidin (Chlothianidin and its metabolites			
	Thiazolymethylguanidine (TMG), Thiazolymethylurea (TZMU), Methylnitroguanidine (MNG) TMG)		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg

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NOTE: Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders will be liable for legal action. Unless otherwise stated the submitted results in this test report refer only to the sample(s) tested and such sample(s) are retained for 15 days only from the completion date of testing, except in case of regulatory samples, which will be retained for a specific period as per statutory requirement; while perishable & environmental testing related remnant samples will be discarded consequent upon completion of testing. Samples are not drawn by us unless otherwise stated. This document cannot be reproduced except in full, without prior written approval of the laboratory. This report is for the exclusive use of Chennai Mettex Lab's customer, and is provided in accordance with the agreement between Chennai Mettex Lab and its Customer.

CML/LAB/F/7.8.1



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	Chromafenozone	CML/INS/SOP/13	ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Cinmethylene		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Clodinafop-propargyl		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Clomazone		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Cyantranilipole		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Cyazofamid		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Cyhalofop-butyl		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Cymoxanil		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Cypermethrin		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Deltamethrin (Decamethrin)		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Diaphenethuron		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Dichlorvos		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Diclofop (sum diclofop-methyl and diclofop acid expressed as diclofop-methyl)*		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Diclosulam		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Dicofol (sum of o,p' and p,p' isomers)*		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Difenoconazole		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Diflubenzuron		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Dimethoate		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Dimethomorph		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Dinocap		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Dinotefuran		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Dithianon		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Dithiocarbamates(the residue tolerance limit are determined and expressed as mg/CS2/kg and refer separately to the residues arising from any or each group of dithiocarbamates)		ND (DL : 0.01 mg/kg)	Not more than 2.0 mg/kg
	Ethylene bis- dithiocarbamates resulting from the use of mancozeb, manebe or zineb (including zineb derived from nabam plus zinc sulphate)		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Mancozeb		ND (DL : 0.01 mg/kg)	Not more than 2.0 mg/kg
	Metiram as CS2		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Zineb as CS2		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Diuron		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Dodine		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Edifenphos		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Emamectin Benzoate		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Epoxyconazole		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Ethephon		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Ethion(Residues to be determined as ethion and its oxygen analogue and expressed as ethion)		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Ethofenprox (Etofenprox)		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Ethoxysulfuron		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Etoxazole		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Famoxadone		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Fenamidone		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Fenarimol		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Fenazaquin		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Fenobucarb (BPMC)		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg



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	Fenoxaprop-p-ethyl	CML/INS/SOP/13	ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Fenpropothrin		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Fenpyroximate		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Fenvalerate (Fat soluble residue)		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Fipronil		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Flonicamid		ND (DL : 0.005 mg/kg)	Not more than 0.01* mg/kg
	Fluazifop-p-butyl		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Flubendiamide		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Fluchloralin		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Flufenacet		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Flusilazole		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Fluvalinate		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Forchlorfenuron		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Fosetyl-Al		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Glufosinate Ammonium		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Glyphosate		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Halosulfuron methyl		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Hexaconazole		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Hexazinone		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Hexythiazox		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Iodosulfuron Methyl Sodium		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Imazethapyr		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Imidacloprid		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Indoxacarb		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Iprobenfos (Kitazin)		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Iprodione		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Isoprothiolane		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Isoproturon		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Kasugamycin		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Kresoxim Methyl		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Lambda cyhalothrin		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Linuron		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Lufenuron		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Malathion (Malathion to be determined and expressed as combined residues of malathion and malaoxon)		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Mandipropamid		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Mepiquat Chloride		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Mesosulfuron Methyl		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Metaflumizone		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Metalaaxy		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Metalaaxy-M		ND (DL : 0.01 mg/kg)	Not more than 0.5 mg/kg
	Methabenzthiazuron		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Methomyl		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Methyl Chlorophenoxy Acetic Acid (MCPA)		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Methyl Parathion (combined residues of methyl parathion and its oxygen analogue to be determined and expressed as methyl parathion)		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Metolachlor		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Metribuzin		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Metsulfuron Methyl		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg

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	Milbemectin	CML/INS/SOP/13	ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Monocrotophos		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Myclobutanil		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Novaluron		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Orthosulfamuron		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Oxadiazyl		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Oxadiazon		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Oxydemeton-Methyl		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Oxyfluorfen		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Paclobutrazol		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Paraquat dichloride		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Penconazole		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Pencycuron		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Pendimethalin		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Penoxusulm		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Permethrin		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Phenthroate		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Phorate (sum of Phorate, its oxygen analogue and their sulphoxides and sulphones, expressed as phorate)		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Phosalone		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Picoxystrobin		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Pinoxaden		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Pretilachlor		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Pirimiphos-methyl		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Profenofos		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Prohexadione calcium		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Propaquizafop		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Propargite		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Propiconazole		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Propineb		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Pyraclostrobin		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Pyrazosulfuron ethyl		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Pyridalyl		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Pyriproxyfen		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Pyrithiolac Sodium		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Pymetrozine		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Quinalphos		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Quizalofop ethyl		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Quizalofop-P-tefuryl		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Sodium Acefloufen		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Spinosad		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Spiromesifen		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Sulfosulfuron		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Tebuconazole		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Thiacloprid		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Thifluzamide		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Thiodicarb		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Thiamethoxam		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Thiometon (Residues determined as thiometon its sulfoxide and sulphone expressed as thiometon)		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Thiophanate-Methyl		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Tolfenpyrad		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Trichlorfon		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Triacontanol		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg



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TC-5589

Contd....CML/24-25/75835 Dated 09.01.2025 ULR - TC558925000001444F

SI.N O	Quality Characteristics	Nature of Method of Test Used	Result	Prescribed Standards as per 2.9.15 (a) of the Food Safety and Standards (Food Product Standards and Food additives) & Food Safety and Standards (Contaminants, Toxins and Residues) Regulation, 2011
	Triadimefon	CML/INS/SOP/13	ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Trifloxystrobin		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Triallate		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Triasulfuron		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Triazophos		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Tricyclazole		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Tridemorph		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Trifluralin		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Validamycin		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Fluopicolide		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Tembotrizone		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Propanil		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Fluopyram and its metabolites		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Topramezone		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Thiocyclam Hydrogen Oxalate		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	2,4-D Amine Salt		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Ametyn		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Fomesafen		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Imazamox		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Spinetoram and its metabolites (Spinosyn-J and Spinosyn-L)		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Sodium Para Nitro Phenolate		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Bentazone		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Cyflumetofen		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Boscalid		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Flucetosulfuron		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Haloxyfop-R Methyl		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Sulfentrazone and its metabolite Desmethylsulfentrazone and 3-Hydroxymethylsulfentrazone		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Spirotetramat		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Metrafenone		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Fluxapyroxad		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Tetraconazole		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Abamectin		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Flupyradifurone and its metabolites Difluoroacetic Acid and Difluoroethylamino-furanone		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Sulfoxafilor		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Hydrogen Cyanamide		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Copper Hydroxide , Copper Sulphate , Copper Oxychloride , Cuprous Oxide (Copper determined as elemental copper)		7.24 mg/kg	Not more than 30 mg/kg
	Bispyribac Sodium		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg

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TC-5589

Contd....CML/24-25/75835 Dated 09.01.2025 ULR - TC55892500001444F

Sl. NO	Quality Characteristics	Nature of Method of Test Used	Result	Prescribed Standards as per 2.9.15 (a) of the Food Safety and Standards (Food Product Standards and Food additives) & Food Safety and Standards (Contaminants, Toxins and Residues) Regulation, 2011
6	Banned insecticides			
	Aldicarb	CML/INS/SOP/13	ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Aldrin		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Dieldrin		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Chlordane		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Carbofuran (sum of carbofuran and 3-hydroxy carbofuran expressed as carbofuran)		ND (DL : 0.002 mg/kg)	Not more than 0.01* mg/kg
	Heptachlor		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Lindane Gamma-HCH) Gamma (γ) Isomer (Known as Lindane)		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Endosulfan		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Methomyl		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Phosphamidon		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Captafol		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Ferbam		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Formothion		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Simazine		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Diazinon		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	D.D.T		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Fenitrothion		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Fenthion		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Methyl Parathion (combined residues of methyl parathion and its oxygen analogue to be determined and expressed as methyl parathion)		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Ethyl Parathion		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg
	Monocrotophos		ND (DL : 0.01 mg/kg)	Not more than 0.01* mg/kg

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TC-5589

Contd....CML/24-25/75835 Dated 09.01.2025 ULR - TC558925000001444F

SI.N O	Quality Characteristics	Nature of Method of Test Used	Result	Prescribed Standards as per 2.9.15 (a) of the Food Safety and Standards (Food Product Standards and Food additives) & Food Safety and Standards (Contaminants, Toxins and Residues) Regulation, 2011
7	Microbiological safety parameters Discipline : Biological			Group : Food & Agricultural Products
	Aerobic Colony Count	IS: 5402: 2012 (RA:2018)	800 cfu/g	Not more than 1×10^6 cfu/g
	Yeast & Mould Count	IS: 5403: 1999 (RA:2018)	<10 cfu/g	Not more than 1×10^4 cfu/g
	Enterobacteriaceae	ISO: 21528-2 : 2017	<10 cfu/g	Not more than 1×10^2 cfu/g
	Staphylococcus aureus	ISO 6888-1 : 2021	<10 cfu/g	Not more than 1×10^2 cfu/g
	Salmonella	IS: 5887 Part-3 : 1999 (RA: 2022)	Absent/25g	Absent/25g
	Sulphite reducing Clostridia	ISO: 15213 -1 : 2023	<10 cfu/g	Not more than 1×10^2 cfu/g
	Bacillus cereus	IS: 5887 Part-6 : 2012 (RA: 2022)	<10 cfu/g	Not more than 1×10^3 cfu/g

Note : BDL - Below Detection Limit; ND - Not Detected; DL - Detection Limit; CFU - Colony Forming Unit
 <10 cfu/g can be taken as no microbial growth in 1:10 dilution.

Note: * Maximum Residue Limit fixed at Limit of Quantification (LOQ)

Tolerance limit of 0.01 mg/kg shall apply in cases of pesticides for which MRL have not been fixed.

Opinion:-

The lab has tested all the applicable General parameters and adulterants with respect to the regulation No. 2.9.15(a) of FSS (Food Product Standards and Additives) Regulation 2011 and the results were found satisfactory.

The lab has tested all the applicable contaminants, Toxins and Pesticide residues as per FSS (Contaminants, Toxins and Residues) Regulation 2011 and the results were found satisfactory

Signed this 09th day of JANUARY 2025

J HEMALATHA Digitally signed by J HEMALATHA
 Date: 2025.01.09 18:44:46 +05'30'

FOOD ANALYST,
 CHENNAI METTEX LAB PVT LTD,
 CHENNAI.

DEIVENDRAN Digitally signed by DEIVENDRAN
SATHIYANARAYANAN SATHIYANARAYANAN
 Date: 2025.01.09 18:44:59 +05'30'

FOOD ANALYST,
 CHENNAI METTEX LAB PVT LTD,
 CHENNAI.

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