

FEDERATION FOR DEVELOPMENT OF ACCREDITATION SERVICES

118-119, First Floor, Sushant Tower, Sector – 56, Gurugram – 122011, Haryana, India.



SCOPE OF ACCREDITATION

(Annexure to Certificate of TL - 114)

Validity

12.01.2024 to 01.09.2025

Amended on:

N/A

Biological Testing (Laboratory Based)

S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
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Group: Biological assay

1	Disinfectants, Sanitizers	Efficacy test for Bacteria	USP 45 <1072>: 2022	----
		Efficacy test for Spores		
		Efficacy test fungus		

Group : Microbiological tests (Bacteria, Fungus)

1	Cosmetics and Essential Oils, Toothpaste	Escherichia coli	IS 14648: 2011 (Reff:2021)	----
		Pseudomonas aeruginosa		
		Staphylococcus aureus		
		Total Microbial Count		
		Yeast and mould		
		Candida albicans		
		Preservative Efficacy Test	USP 45 <51>: 2022	
2	Active Pharmaceutical Ingredient, Raw Material (Active material, Inactive material and intermediate), Niacinamide powder, Niacin, Chondroitin sulphate, TDD, MBC, Sorbic acid, Aminophylline, Caffeine Anhydrous, Ambroxol Hydrochloride, Theobromine, etc.	Total yeast and mould count	IP Volume I (2.2.9):2022 USP 45 <62> : 2022, BP : 2.6.13 :2022	----
		Total aerobic Microbial count		
		Staphylococcus aureus		
		E.Coli		
		Salmonella spp.		
		Pseudomonas aeruginosa		
		Bile tolerant gram negative bacteria		
		Particle Size		
		Preservative Efficacy Test	USP 45 <51>: 2022	

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3.	Finished Products (Tablets, Capsule, Syrup, Ointment), 70% IPA, Entry Canded, Canal+Finished Sample, Detartrine- Finished Sample, Paracetamol, Azithromycin Tablets, Atorvastatin, Pain Relief, New DPT-01 (Mineral premix for children), Harty-D Capsule) etc.	Particle Size	USP 45 <776>: 2022	-----
		Total yeast and mould count	IP Volume I (2.2.9):2022 USP 45 <61> : 2022 BP : 2.6.12 :2022	
		Total aerobic Microbial count		
		Staphylococcus aureus	IP Volume I (2.2.9):2022	
		E.Coli	USP 45 <62> : 2022	
		Salmonella spp.	BP : 2.6.13 :2022	
		Pseudomonas aeruginosa		
		Bile tolerant gram negative bacteria		
		Preservative Efficacy Test	USP 45 <51>: 2022	
		Bioassay	IP Volume I(2.2.10):2022 USP 45 <81> :2022	
Bacterial Endotoxins Test	IP Volume I (2.2.3):2022 USP 45 <85> :2022 BP 2.6.14 :2022			
4.	Water for injection	Bacterial Endotoxins Test	IP Volume I (2.2.3):2022 USP 45 <85> :2022 BP 2.6.14 :2022	----
		Total aerobic Microbial count	IP Volume I (2.2.9):2022 USP 45 <61> : 2022 BP : 2.6.12 :2022	
		Total yeast and mould count		
		E.Coli	IP Volume I (2.2.9):2022	
		Staphylococcus aureus	USP 45 <62>: 2022	
		Salmonella spp. Pseudomonas aeruginosa	BP : 2.6.13 :2022	
5.	Pathological stain and bacteria and fungus stain	Stain performance	Histopathological, Medical Microbiology 1st Edition	----

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6.	Dialysis Water, RO Water	Bacterial Endotoxins Test	IP Volume I (2.2.3): 2022 USP 45 <85> :2022 BP 2.6.14 :2022	----
Group :Sterility Test (for Drugs)				
1	Water for injection	Sterility	IP Volume I (2.2.11): 2022	----
2	Injectable Preparation	Sterility		----
3	Surgical products	Sterility	ISO 11737 -2: 2019	----
Group : Specialized Instrumental Analysis				
1.	Electrophoresis - Synthetic Glycerol, Formamide, acrylamide	Dnase	IP Volume I (2.2.12): 2022	----
		Rnase		
		Protease		
Group : Food & Agriculture Products				
1	Bakery & Confectionery Products, Beverage (Alcoholic and Non Alcoholic), Canned and Processed food, Cereal Pulse and Cereal Products, Fruit and Fruits Products, Herbs Spices and Condiments / Jam/ Juices/Concentrated / Sauces, Meat and Meat Products, Chicken and Chicken Products, Eggs, Nut and Nut Products, Snack and Instant Mixes, Honey and Honey Products, Milk and Milk (Dairy) Products, Instant Food, Vegetable and Vegetable Products	Salmonella spp.	IS 5887 : Part 3 : 1999 (Reff: 2022)	----

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
2.	Beverage (Alcoholic and Non Alcoholic)	Brewer's yeast	Microscopic examination.	----

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
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Group: Air Gases & Atmosphere

1	Ambient Air	Particulate Matter 2.5 micron	IS: 5182 (Part 24): 2019	----
		Sulphur dioxide (SO ₂)	IS 5182 Part 2 : 2022	
		Oxides of Nitrogen as NO ₂	IS: 5182 Part 6: 2022	
		Ambient Ammonia	IS 5182 (Part 25) : 2018	
		Sampling	SOP/QC/28 :2021	
2	Medical Oxygen	Identification - Test A	As per USP 43: 2020	GCFID- TCD
		Identification: Test B		
		Carbon dioxide (CO ₂)		
		Carbon monoxide (CO)		
		Oxygen		
3	Stack Emission Monitoring	Oxide of Nitrogen (NO ₂)	IS 11255 Part 7 : 2005 (Reff.2022)	----
		Particulate Matter	IS 11255 Part 1 : 1985 (Reff.2019)	
		Sulphur Dioxide (SO ₂)	IS 11255 Part 2 : 1985 (Reff.2019)	
		Sampling	SOP/QC/28 :2021	
4	Ambient Noise	Sound pressure level	IS 15575 Part 2 :2023	----

Group: Pollution & Environment

1	Sludge sample (Solid/Semi Solid), Hazardous Solid Waste	pH	IS 2720 (Part 26): 2021	----
		Calorific value	IS 1350 Part 2: 2022	
		Loss on drying @105°C (Moisture content)	APHA 24th Edition 2540 D :2023	
		Loss of Ignition at 550°C		
		Ash content @ 900°C	ASTM D 2974 -87	
Bulk density	ASTM D 5057: 2010			

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2	Soil, Sediment	Calcium Carbonate	IS:2720 (Part 23): 2016	----
		Electrical Conductivity	IS 14767: 2000 Reff: 2016)	
		Organic Carbon	IS 2720 (Part 22): 2016	
		Organic Matter		
		pH	IS 2720 (Part 26): 1987	
		Water Content	IS : 2720 (Part II): 2016	
3	Waste Water (Effluent /Sewage), ETP Water, STP Water, Liquid effluents	pH	IS:3025: (Part11): 2022	----
		Sulphate	IS 3025 (Part 24): Sec 1: 2022	
		Chloride	IS 3025 Part 32: 2019	
		Total Dissolved Solid	IS: 3025 (Part 16) : 2023	
		Total Suspended Solids	IS :3025 (Part 17) : 2022	
		Biochemical Oxygen Demand (3 days @ 27°C)	IS 3025 (Part 44): 2019	
		Chemical Oxygen Demand (COD)	IS 3025 : Part 58: 2006	
		Oil and Grease	IS 3025:(Part 39): 2021	
Group : Water				
1	Drinking Water , Raw water, RO Water, MIDC Water, Tap Water, Potable Water, Process Water , Water for Packaged Drinking Water other than natural mineral, Surface Water,	Taste	IS 3025 part 7 :2017	----
			IS 3025 Part 8 : 2023	
		Odour	IS 3025 part 5 : 2018	
		Colour	IS 3025 Part 4 : 2021	
		pH	IS 3025 : Part 11: 2022,	
APHA4500H+ (PART B) 24th: 2023				

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
	Bore well Water, Ground Water, Water, Water used in Process food Industry, Water for Swimming Pool.	Alkalinity As p-alkalinity	IS 3025 : Part 23 : 2023	----
		Alkalinity As M-alkalinity	IS 3025 : Part 23 : 2023	
		Total Alkalinity	IS 3025 : Part 23 : 2023	
		Chloride	IS:3025 : Part 32: 2019	
		Free Residual chlorine	IS 3025 : Part 26 : 2021, APHA 24th Edition 3500-B: 2023	
		Chromium (as Cr +6)	APHA 24th Edition 3500-B: 2023	UV Spectrophotometer
		Cyanide	IS 3025 Part 27/sec1 : 2021	
		Electrical Conductivity	APHA 24th Edition 2510 B: 2023	----
		Fluoride	IS 3025 : Part 60 : Sec 2 : 2022, APHA 24th Edition (4500-FD): 2023	UV Spectrophotometer
		Total Dissolved Oxygen mg/l	IS 3025 : Part 38 : 2019	----
		Total Dissolved Solid	IS 3025 : Part 16: 2023	
		Total solid	IS 3025 Part 15 : 2019	
		Total suspended Solid	IS 3025 :Part 17: 2022	
		Phosphate	IS 3025 : Part 31/sec 1 : 2022, APHA 24th Edition 4500-P D: 2023	UV Spectrophotometer
		Total Hardness (as CaCO ₃)	IS 3025 : Part 21 : 2019, APHA 24th Edition (2340-C): 2023	----
		Turbidity	IS: 3025 Part 10: 2023	----

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		Total Ammonia	IS 3025 Part 34/Sec 2: 2021	----
		Ammonical Nitrogen	IS 3025 : Part 34/sec 2: 2021	UV Spectrophoto meter
		Nitrate	APHA 24 th Edition 4500- NO3 B: 2023,	
			IS 3025 Part 34/sec 2 : 2021	
		Nitrite	IS 3025 Part 34/sec 2 : 2021	
		Phenolic Compound	IS 3025 : Part 43/sec 1 : 2022	
		Mineral oil	IS 3025 part 39 : 2021	FTIR
		Reactive silica	APHA 24 th Edition , 4500C: 2023,	UV Spectrophoto meter
			IS 3025 : Part 35 : 2022	
		Sulphate	IS 3025 : Part 24/Sec 1: 2022	
		Sulphide	IS 3025 : Part 29: 2022	----
		Anionic Surface Active Agent	Annex K of IS 13428 :2005	UV Spectrophoto meter
		Borate	Annex H of IS 13428 :2005	
		Bromate	APHA 24th Edition (4110- D): 2023	Ion Chromato graphy
		Calcium	APHA 24th edition (3500Ca-B): 2023,	----
			IS 3025 : Part 40 : 2019	

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		Magnesium	APHA 24th edition (3500Mg-B): 2023	----
2	Purified Water, Reagent Grade Water Demineralised water, Distilled Water,	pH	IS 3025 : Part 11: 2022,	----
		Electrical Conductivity	APHA 24th Edition 2510 B: 2023	
		Acidity	As per IP 2022	
		Alkalinity		
		Chloride		
		Ammonia		
		Nitrate		
		Sulphate		
		Heavy metals	As per IP 2022	
		Residue on Evaporation		
		Calcium		
		Magnesium		
3	Construction Water	Organic Solid	IS 3025 Part 18 : 2022	----
		Inorganic Solid	IS 3025 Part 18 : 2022	
		Chloride (as Cl),	IS:3025 (Part 32) : 2022	
		Sulphate (as SO ₃)	IS:3025 (Part 24) : 2022	
		Suspended Matter	IS:3025 (Part 17) :2022	
		Neutralization of 100ml sample of water using phenolphthalein	IS:3025 (Part 22):2022	
		Neutralization of 100ml sample of water using mixed indicator	IS:3025 (Part 23):2022	
Group: Drugs & Pharmaceuticals Cosmetics				
1	Vitamin A Pediatric Oral solution	Assay	IP Volume II (Page No: 3500-3501): 2022	HPLC
		Identification A (By TLC)		

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
		Identification B		HPLC
		Identification C		
		Identification D		
		Uniformity of content	IP Volume III (Page No:1111 & 1112): 2022	
2	All Pharmaceutical Aid and API	N-Nitrosodibutylamine	JPCLPL/AMV/R/21/013: 2021	GCMS-MS
		N-Nitrosodiethylamine	JPCLPL/AMV/R/21/001: 2021	
		N-Nitrosodimethylamine	JPCLPL/AMV/R/21/013: 2021	
		N-Nitrosomorpholine	JPCLPL/AMV/R/22/030: 2022	
		N-Nitrosopiperidine	USP 45 (2022-2023) General Chapter <467> Procedure -C	
3	Residual Solvents in Pharmaceuticals	Cyclohexane (Class 2)	USP 45 (2022-2023) General Chapter <467> Procedure -C	GCMS, GCFID-TCD
		Dimethylformamide (DMF) (Class 2)		
		Ethyl Acetate (Class 3)		
		Methylene Chloride (Class 2)		
		Toluene (Class 2)		
		Acetic Acid (Class 3)		
		Acetone (Class 3)		
		Benzene (Class 1)		
		Iso Propyl Alcohol (IPA)		
		Methanol (Class 2)		
4	Powder	Matter insoluble In Boiling Water	IS 3959: 2023	----
		Fineness 1)75 Micron 2)150 micron		
		Moisture & Volatile Matter		
		pH		

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
5	Cream	Heavy Metal	IS 6608: 2004 (Reff:2019)	----
		Arsenic		
		pH		
		Thermal Stability		
		Total Fatty Substance		
		Total Residue		
6	Lotion	Arsenic	IS 6608: 2004 (Reff:2019)	----
		Heavy Metal		
		pH		
		weight Per ml		
		Thermal Stability		
		Total Fatty Substance		
7	Shampoo	Total Residue	IS 7884: 2004 (Reff:2019)	----
		Arsenic		
		Heavy Metal		
		PH		
		Odour		
		Specific Gravity		
		Foam Height		
		Thermal Stability		
8	Essential Oil	Arsenic	IS 7123:2019	----
		Heavy Metal		
		Peroxide Value		
		Acid Value		
9	Hair Removal	Arsenic	IS 9636:1988 (Reff:2021)	----
		Heavy Metal		
		Calcium Thioglycolate		

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
10	Toothpaste	pH	IS 6356: 2021	----
		Fineness 1)75 Micron 2)150 micron		
		Heavy Metal		
		Arsenic		
		Foaming Powder		
11	Hair Dye	pH	IS 8481 : 2020	----
		Dye ingredients		
		Active matter as PPD content, percent by mass		
		Heavy Metal		
		Arsenic		
Group: Food and Agricultural products				
1	Health Nutritional supplement product, Nutraceuticals and Functional Food (Mineral and vitamin premix, Horlics, Women's horlics, nutrient premixes, nutritional premix)	Vitamin A	AOAC 2001.13, 20th Edition : 2016	HPLC
		Vitamin B1	JPCL/AMV/P/031: 2019	
		Vitamin B12	JPCL/AMV/P/17/001: 2017	
		Vitamin B2	JPCL/AMV/P/031: 2019	
		Vitamin B3	JPCL/AMV/P/031: 2019	
		Vitamin B5	JPCL/AMV/P/17/004: 2017	
		Vitamin B6	JPCL/AMV/P/18/023: 2018	
		Vitamin B7	JPCL/AMV/P/18/025: 2018	
		Vitamin B9	JPCL/AMV/P/17/002: 2017	
		Vitamin C	AOAC 20th edition: 2016	

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		Vitamin D2	JPCL/AMV/P/18/027: 2018	HPLC
		Vitamin D3	JPCL/AMV/P/17/002: 2017	
		Vitamin E	AOAC SMPR .005: 2016	
2	ANIMAL FOOD & FEEDS			
	Animal feed & feed stuffs	Acid Insoluble Ash	IS 7874: Part I: 1975 (Reff:2019)	---
		Ash	IS 7874: Part I: 1975 (Reff:2019)	
		Crude fat	IS 7874: Part I: 1975 (Reff:2019)	
		Crude fibre	IS 7874: Part I: 1975 (Reff:2019)	
		Crude Protein	IS 7874: Part I: 1975 (Reff:2019)	
		Moisture	IS 7874: Part I: 1975 (Reff:2019)	
		Phosphorous	IS 7874: Part 2: 1975 (Reff:2019)	UV Spectropho meter
		Salt as NaCl	IS 7874 Part 2: 1975 (Reff:2019)	---
3	Alcoholic Beverages & Non-Alcoholic Beverages	Volatile Acidity (as acetic acid)	IS 3752:2005 (Reff:2020)	---
		Esters expressed as ethyl acetate	FSSAI Manual for Analysis of Alcoholic Beverages: 2021	
		Furfural	FSSAI Manual for Analysis of Alcoholic Beverages: 2021	

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		Higher alcohol expressed as amyl alcohol	FSSAI Manual for Analysis of Alcoholic Beverages: 2021	----
		Methyl alcohol	FSSAI Manual for Analysis of Alcoholic Beverages: 2021	
		Relative Density at 20/20 deg C	IS 3752: 2005(Reff;2020)	
		Residual Extract (Sugar free)	FSSAI Manual for Analysis of Alcoholic Beverages: 2021	
		Residue on evaporation	FSSAI Manual for Analysis of Alcoholic Beverages: 2021	
		Total acidity as tartaric acid	FSSAI Manual for Analysis of Alcoholic Beverages: 2021	----
		Ash	IS 3752: 2005 (Reff:2020)	
		Reducing Sugar	FSSAI Manual for Analysis of Alcoholic Beverages: 2021	
		Volatile acidity as acetic acid	FSSAI Manual for Analysis of Alcoholic Beverages: 2021	
		4	Alcoholic drinks & Beverages (Wine, Spirit, Rum,Vodka)	Added coloring matter
Aldehydes expressed as acetaldehyde	IS 3752: 2005 (Reff:2020)			
Ash	IS 3752: 2005 (Reff:2020)			
Esters	IS 3752: 2005 (Reff:2020)			

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		Citric acid	AOAC 21st Edition, 986.13:1989:1996	----
		Ethyl Alcohol	IS 3752: 2005 (Reff:2020)	GC - FID
		Extracts	IS 7585:1995 (Reff:2020)	----
			IS 3752: 2005 (Reff:2020)	
		Free Sulphur Dioxide	IS 7585:1995 (Reff:2020)	GC - FID
		Furfural	IS 3752: 2005 (Reff:2020)	
		Higher Alcohol	IS 3752: 2005 (Reff:2020)	
		Methyl alcohol	IS 3752: 2005 (Reff:2020)	----
		pH	FSSAI Manual for Analysis of Alcoholic Beverages: 2021	
			FSSAI Manual Of Fruits and Vegetables: 2016	
		Propylene glycol	IS 3752: 2005 (Reff:2020)	GCFID
		Reducing Sugar	FSSAI Manual for Analysis of Alcoholic Beverages: 2021	----
		Sulphur dioxide	FSSAI Manual of method of analysis Fresh Fruits & Vegetables: 2016	
			IS 7058:2005 (Reff:2019)	
		Taste Test & odour	FSSAI Manual for Alcoholic Beverages:2021	----
		Test for Absent of resin (sulphur test)	FSSAI Manual for method of manual of spices and condiments 2021- FSSAI 10.035:2021	
		Total Acidity	IS 3752: 2005 (Reff:2020)	
		Total acids (as tartaric acid)	IS 3811: 2005(Reff: 2020)	

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		Volatile Acidity	IS 7058:2005 (Reff:2019) IS3752:2005 (Reff:2020)	----
5	Soft drinks: Carbonated, Non-Carbonated	Caffeine	AOAC 21st Edition, 962.13:1962	HPLC
6	Spices and Condiments products			
i)	Caraway, Cardamom, Cinnamon, Cassia, Cumin, Fennel, Fenugreek, Ginger, Mace, Mustard, Nutmeg, Poppy, Aniseed & Ajowan,	Energy	JPCL/STP/QC/F/38	----
Acid Insoluble Ash		FSSAI Manual for method of manual of spices and condiments 2021- FSSAI 10.007:2021		
		IS 1797: 2017 Ref. 2021		
		IS:7807: 1975 Ref:2019		
Added Coloring & Flavoring Matter		FSSAI Manual Food Additives: 2016		
Alcohol extract		IS:7807: 1975 Ref:2019 IS 1797: 2017 Ref. 2021		
Alcohol Soluble Extract		FSSAI Manual for Analysis of Spices, Herbs & Condiments: 2021		
Allyl iso thiocyanate				
Ammoniacum resin				
Any other foreign resin				
Argemone oil				
Ash Excluding salt		IS 1797: 2017 Ref. 2021		
Broken fruits, seed & fragments		FSSAI Manual for Analysis of Spices, Herbs & Condiments: 2021		
Bulk Density		ASTA 4th edition: 2013 FSSAI Manual for method of manual of spices and condiments 2021- FSSAI 10.018:2021		

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		Calcium as calcium oxide	FSSAI Manual for Analysis of Spices, Herbs & Condiments: 2021	----
		Carbohydrates	JPCL/STP/QC/F/38	----
		Coal tar dyes	FSSAI Manual for Analysis of Spices, Herbs & Condiments: 2021	HPLC
		Cold water soluble extract	FSSAI Manual for Analysis of Spices, Herbs & Condiments: 2021	----
			IS 1797: 2017 Ref. 2021	
		Colophony and galbanum resin	FSSAI Manual for Analysis of Spices, Herbs & Condiments: 2021	By UV Spectrophotometer
		Colour	JPCL/STP/QC/F/40	
		Colouring strength expressed as reading of the absorbance of crocine at 440 nm on dry basis	FSSAI Manual for Analysis of Spices, Herbs & Condiments: 2021	By UV Spectrophotometer
			IS 5453 Part 2: 1996	
		Crude Fiber	FSSAI Manual for Analysis of Spices, Herbs & Condiments: 2021	----
			IS 1797: 2017 Ref. 2021	
		Curcumin	FSSAI Manual for Analysis of Spices, Herbs & Condiments: 2021	

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
		Defective, Damaged and Discolored seeds	FSSAI Manual for Analysis of Spices, Herbs & Condiments: 2021	----
		Description: -Appearance - colour - flavor - texture - taste I	IS 1798:2022	
		Empty & malformed capsules by count	FSSAI Manual for Analysis of Spices, Herbs & Condiments: 2021	----
		Extraneous matter	FSSAI Manual for Analysis of Spices, Herbs & Condiments: 2021	
			IS 1797: 2017 Ref. 2021	
		Fat	IS 1797: 2017 Ref. 2021	
			FSSAI Manual for Analysis of Spices, Herbs & Condiments: 2021	
		Foreign seeds (edible seeds, vegetable matter, Argemone, Maxicana L seeds)	FSSAI Manual for Analysis of Spices, Herbs & Condiments: 2021	----
		Foreign matter (Living insects, mould, dead insects, insect fragments and rodent contamination, sand, grit, stalks, peels, stems etc)	FSSAI Manual for Analysis of Spices, Herbs & Condiments: 2021	
		Free From Harmful Substances	FSSAI Manual for Analysis of Spices, Herbs & Condiments: 2021	

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
		Immature & Shrivelled capsules	FSSAI Manual for Analysis of Spices, Herbs & Condiments: 2021	----
		Impurities (dirt, Stalks, peels, stems, living and dead insects, insect fragments, insect infestation, rodent contamination, mould growth)	FSSAI Manual for Analysis of Spices, Herbs & Condiments: 2021	
			IS 1908:2020	
		Insect damaged seeds	FSSAI Manual for Analysis of Spices, Herbs & Condiments: 2021	
		Light Seeds/Berries	FSSAI Manual for Analysis of Spices, Herbs & Condiments: 2021	
		Mineral oil	FSSAI Manual for Analysis of Spices, Herbs & Condiments: 2021	
		Moisture Content	FSSAI Manual for Analysis of Spices, Herbs & Condiments: 2021	
			IS 1797: 2017 Ref. 2021	
		Non-volatile ether extract	FSSAI Manual for Analysis of Spices, Herbs & Condiments: 2021	
			IS 1797: 2017 Ref. 2021	
		Nutmeg in mace	FSSAI Manual of Spices and Condiments: 2021	
		P-hydroxy benzyl iso thiocyanate	FSSAI Manual for Analysis of Spices, Herbs & Condiments: 2021	

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
		Starch	FSSAI Manual for Analysis of Spices, Herbs & Condiments: 2021	----
		Total ash	FSSAI Manual for Analysis of Spices, Herbs & Condiments: 2021 IS 1797: 2017 Reff. 2021	
		Total Nitrogen	FSSAI Manual for Analysis of Spices, Herbs & Condiments: 2021	
		Total Sugars as invert sugar	FSSAI Manual for Analysis of Spices, Herbs & Condiments: 2021	
		Volatile Oil	FSSAI Manual for Analysis of Spices, Herbs & Condiments: 2021 IS 1797: 2017 Reff. 2021	
		Water insoluble ash	IS 1797: 2017 Reff. 2021	
ii)	Asafoetida	Alcohol Extract	IS:7807: 1975 Reff:2019	----
		Ammoniacum resin		
		Any other foreign resin		
		Colophony and galbanum resin,		
		Total ash		
		Acid Insoluble Ash		
		Starch		
		Moisture Content	IS 1797: 2017 Reff. 2021	
iii)	Chillies, Capsicum(Lal Mirchi) – powder and whole	Acid Insoluble Ash	FSSAI Manual of Spices and Condiments : 2015 IS 1797: 2017 Reaff. 2021	----

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
			IS:7807: 1975 Reff:2019	----
			IS 5453 Part 2: 2016 (Reff: 2021)	
		Added Coloring & Flavouring Matter	FSSAI Manual On Food Additives:2016	
			IS 13242:2018 (Reff:2022)	
		Ammoniacum Resin	FSSAI Manual of Spices and Condiments : 2015	
		Any Other Foreign resin	FSSAI Manual of Spices and Condiments : 2015	
		Ash Excluding Salt	IS 1797: 2017 Reff. 2021	
		Broken Fruits, seeds & fragments	FSSAI Manual of Spices and Condiments : 2015	
		Bulk Density	FSSAI Manual of Spices and Condiments : 2015	
		Energy	JPCL/STP/QC/F/38	
		Capsaicin	FSSAI Manual of Spices and Condiments : 2015	By UV Spectrophotometer
		Cold water soluble extract	FSSAI Manual of Spices and Condiments : 2015	----
			IS 1797: 2017 Reff. 2021	
		Colophony and gulanum resin	FSSAI Manual of Spices and Condiments : 2015	
			IS 1797: 2017 Reff. 2021	
		Extraneous Matter	FSSAI Manual of Spices and Condiments : 2015	
			IS 1797: 2017 Reff. 2021	
		Fat	IS 1797: 2017 Reff. 2021	

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
		Foreign seeds (edible seeds, vegetable matter, Argemone, Maxicana L seeds)	FSSAI Manual of Spices and Condiments : 2015	----
		Foreign Matter (Living Insects, Mould, dead Insects, Insect fragments and Rodent Contaminations, Sand, Grit, stalks, peels , stems etc.)	FSSAI Manual of Spices and Condiments : 2015	
		Impurities (dirt, Stalks, peels, stems, living and dead insects, insect fragments, insect infestation, rodent contamination, mould growth)	FSSAI Manual of Spices and Condiments : 2015	
		Insect Damaged Seeds		
		Mineral Oil		
		Moisture Content	FSSAI Manual of Spices and Condiments : 2015 IS 1797: 2017 Ref. 2021	
		Non Volatile Ether Extract	FSSAI Manual of Spices and Condiments : 2015 IS 1797: 2017 Ref. 2021	
		Starch	FSSAI Manual of Spices and Condiments : 2015	
		Total Ash	FSSAI Manual of Spices and Condiments : 2015 IS 1797: 2017 Ref. 2021	----

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
		Total Nitrogen	FSSAI Manual of Spices and Condiments : 2015	----
		Total Sugar as invert Sugar	FSSAI Manual for Analysis of Spices, Herbs & Condiments: 2021	
		Unripe & marked fruits	FSSAI Manual of Spices and Condiments : 2015	
		Volatile Oil	FSSAI Manual of Spices and Condiments : 2015 IS 1797: 2017 Reff. 2021	
		Water insoluble ash	IS 1797: 2017 Reff. 2021	
iv	Cloves	Acid Insoluble Ash	FSSAI Manual for method of manual of spices and condiments 2021- FSSAI 10.007:2021 IS 1797: 2017 Reff. 2021	----
		Alcohol Soluble Extract	FSSAI Manual for method of manual of spices and condiments 2021- FSSAI 10.007:2021 IS 1797: 2017 Reaff. 2021	
		Ammoniacum Resin	FSSAI manual Spices & Condiments:2015	
		Any Other Foreign Resin	FSSAI Manual Spices and Condiments:2015	
		Ash Excluding Salt	IS 1797: 2017 Reff. 2021	
		Bulk Density	FSSAI Manual Spices and Condiments:2015	
		Energy	JPCL/STP/QC/F/38	
		Cold water soluble extract	FSSAI manual spices & condiments:215	

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
			IS 1797: 2021	
		Crude Fiber	FSSAI manual, Spices and Condiments:2015 IS 1797:2017,Reff:2021	----
		Extraneous Matter	FSSAI Manual for method of manual of spices and condiments 2021- FSSAI 10.002:2021 IS 1797: 2017 Reff. 2021	
		Fat	IS 1797: 2017 Reff. 2021	
		Foreign Matter (Living Insects, Mould, dead Insects, Insect fragments and Rodent Contaminations, Sand, Grit, stalks, peels , stems etc.)	FSSAI Manual of Spices and Condiments: 2021	
		Headless, Tendrils, Khokar and Mother cloves	FSSAI Manual of Spices and Condiments: 2021	
		Impurities (dirt, Stalks, peels, stems, living and dead insects, insect fragments, insect infestation, rodent contamination, mould growth)	FSSAI Manual of Spices and Condiments: 2021	
		Insect Damaged Seeds	FSSAI Manual of Spices and Condiments: 2021	
		Mineral Oil	FSSAI Manual of Spices and Condiments: 2021	
		Moisture Content	FSSAI Manual of Spices and Condiments: 2021 IS 1797: 2021	

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
		Non Volatile Ether Extract	FSSAI Manual of Spices and Condiments: 2021 IS 1797: 2021	----
		Total Ash	FSSAI Manual of Spices and Condiments: 2021 IS 1797: 2021	----
		Volatile Oil	FSSAI Manual of Spices and Condiments: 2021 IS 1797: 2021	
		Water insoluble ash	IS 1797: 2021	
v	Black Pepper & White – Powder and Whole	Acid Insoluble Ash	FSSAI Manual of Spices and Condiments: 2021 IS:7807: 1975 Reff:2019	----
		Alcohol Soluble Extract	FSSAI Manual of Spices and Condiments: 2021 IS 1797: 2021	
		Ammoniacum Resin	FSSAI Manual of Spices and Condiments: 2021	
		Any Other Foreign Resin	FSSAI Manual of Spices and Condiments: 2021	
		Ash Excluding Salt	IS 1797: 2021	
		Black and Broken berries	IS 1798:2022 FSSAI Manual of Spices and Condiments: 2021	
		Energy	JPCL/STP/QC/F/38	
		Cold water soluble extract	FSSAI Manual of Spices and Condiments: 2021 IS 1797: 2021	
		Colophony and Gulbanum Resin	FSSAI Manual of Spices and Condiments: 2021	

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
		Crude Fiber	FSSAI Manual of Spices and Condiments: 2021	----
		Description - Appearance, Colour, Flavour, Texture and Taste	JPCL/STP/QC/F/40	----
		Extraneous Matter	FSSAI Manual of Spices and Condiments: 2021 IS 1797: 2021	
		Fat	IS 1797: 2021	
		Foreign Matter (Living Insects, Mould, Dead Insects, Insect Fragments, And rodent Contamination, sand, grit, stalks, peels , stems etc.)	FSSAI Manual of Spices and Condiments: 2021	
		Impurities (dirt, Stalks, peels, stems, living and dead insects, insect fragments, insect infestation, rodent contamination, mould growth)	FSSAI Manual of Spices and Condiments: 2021 IS 1797: 2021	
		Insect Damaged seeds	FSSAI Manual of Spices and Condiments: 2021	
		Light Seeds/Berries		
		Mineral Oil		
		Moisture Content	FSSAI Manual of Spices and Condiments: 2021 IS 1797: 2021	
		Non Volatile Ether Extract	FSSAI Manual of Spices and Condiments: 2021 IS 1797: 2021	----

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
		Piperine content	FSSAI Manual of Spices and Condiments: 2021	----
		Total Ash	FSSAI Manual of Spices and Condiments: 2021	
		Volatile Oil	IS 1797: 2021	
			FSSAI Manual of Spices and Condiments: 2021	
		Water insoluble ash	IS 1797: 2021	
vi)	Saffron	Acid Insoluble Ash	FSSAI Manual of Spices and Condiments: 2021	----
			IS 1797: 2021	
		Added coloring & Flavouring matter	FSSAI Manual of Spices and Condiments: 2021	
		Alcohol Soluble Extract	FSSAI Manual of Spices and Condiments: 2021	
			IS 1797: 2021	
		Ammoniaccum Resin	FSSAI Manual of Spices and Condiments: 2021	
		Any Other Foreign Resin	FSSAI Manual of Spices and Condiments: 2021	
		Ash Excluding Salt	IS 1797: 2021	
		Bitterness, expressed as direct reading of the absorbance of picrocrocin at 257 nm, on dry basis	FSSAI Manual of Spices and Condiments: 2021	
IS 5453 (Part 2);2016 (Reff:2021)				
Colouring strength, expressed as reading of the absorbance of crocine at 440 nm on dry basis	FSSAI Manual of Spices and Condiments: 2021			
	IS 5453 (Part 2) : 2016 (Reff: 2021)			

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
		Calories From Fat	JPCL/STP/QC/F/38	----
		Cold water Soluble Extract	FSSAI Manual of Spices and Condiments: 2021 IS 1797: 2021	
		Colophony and gulanum resin	FSSAI Manual of Spices and Condiments: 2021	
		Crude Fiber	FSSAI Manual of Spices and Condiments: 2021 IS 1797: 2021	
		Description - Appearance, Colour, Flavour, Texture and Taste	JPCL/STP/QC/F/40	
		Extraneous Matter	FSSAI Manual of Spices and Condiments: 2021 IS 1797: 2021	
		Fat	IS 1797: 2021	
		Floral waste	FSSAI Manual of Spices and Condiments: 2021 IS 5453 (Part 1):2016	
		Foreign Matter (Living Insects, Mould, Dead Insects, Insect Fragments, And rodent Contamination, sand, grit, stalks, peels , stems etc.)	FSSAI Manual of Spices and Condiments: 2021	----

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
		Impurities (dirt, Stalks, peels, stems, living and dead insects, insect fragments, insect infestation, rodent contamination, mould growth)	FSSAI Manual for method of manual of spices and condiments 2021- FSSAI 10.023:2021 IS 5453 (Part 1):2016 (Reaff:2021)	----
		Insect Damaged seeds	FSSAI Manual of Spices and Condiments: 2021	
		Mineral oil	FSSAI Manual of Spices and Condiments: 2021	
		Moisture	AOAC 21st Edition, 984.20:1985	
		Moisture & volatile matter	FSSAI Manual for method of manual of spices and condiments 2021- FSSAI 10.003:2021 IS 5453 (Part 1):2016 (Reaff:2021)	
		Moisture Content	FSSAI Manual for Analysis of Fruits & Vegetable Products: 2016 FSSAI Manual of Spices and Condiments: 2021 IS 1797: 2021	
		Non Volatile Ether Extract	FSSAI Manual of Spices and Condiments: 2021 IS 1797: 2021	
		Safranal, expressed as direct reading of the absorbance at 330nm	FSSAI Manual of Spices and Condiments: 2021 IS 5453 (Part 2):2016	By UV Spectrophotometer

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
		Starch	FSSAI Manual of Spices and Condiments: 2021	----
		Sudan 1	FSSAI Manual Food Additives: 2016	HPLC
		Sudan 2	FSSAI Manual Food Additives: 2016	
		Sudan 3	FSSAI Manual Food Additives: 2016	
		Sudan 4	FSSAI Manual Food Additives: 2016	
		Volatile Oil	FSSAI Manual of Spices and Condiments: 2021 IS 1797: 2021	----
		Water insoluble ash	IS 1797: 2021	
vii)	Coriander(whole and powder)	Acid Insoluble Ash	FSSAI Manual of Spices and Condiments: 2021	----
			IS 1797: 2021	
			IS:7807: 1975 Reff:2019	
		Alcohol Soluble Extract	FSSAI Manual of Spices and Condiments: 2021	
			IS 1797: 2021	
		Ammoniacum resin	FSSAI Manual of Spices and Condiments: 2021	
		Any Other Foreign Resin	FSSAI Manual of Spices and Condiments: 2021	
		Ash Excluding Salt	IS 1797: 2021	
Bulk Density	FSSAI Manual of Spices and Condiments: 2021			
Energy	JPCL/STP/QC/F/38			

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
		Cold water soluble extract	FSSAI Manual of Spices and Condiments: 2021 IS 1797: 2021	----
		Colophony and gulanum resin	FSSAI Manual of Spices and Condiments: 2021	
		Crude Fiber	FSSAI Manual of Spices and Condiments: 2021 IS 1797: 2021	
		Extraneous Matter	FSSAI Manual of Spices and Condiments: 2021 IS 1797: 2021	
		Fat	IS 1797: 2021	
		Foreign Matter (Living insects, mould, dead insects, insect fragments and rodent contamination, sand, grit, stalks, peels, stems etc)	FSSAI Manual of Spices and Condiments: 2021	
		Impurities (dirt, Stalks, peels, stems, living and dead insects, insect fragments, insect infestation, rodent contamination, mould growth)	FSSAI Manual of Spices and Condiments: 2021	
		Insect Damaged Seeds	FSSAI Manual of Spices and Condiments: 2021	----
		Mineral Oil	FSSAI Manual of Spices and Condiments: 2021	

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
		Moisture Content	FSSAI Manual of Spices and Condiments: 2021 IS 1797: 2021	----
		Non Volatile Ether Extract	FSSAI Manual of Spices and Condiments: 2021	
		Split fruits	IS 1797: 2021	
		Total Ash	FSSAI Manual of Spices and Condiments: 2021 IS 1797: 2021	
		Volatile Oil	FSSAI Manual of Spices and Condiments: 2021 IS 1797: 2021	
		Water insoluble ash	IS 1797: 2021	
viii)	Curry Powder, Mixed Masala powder	Acid Insoluble Ash	FSSAI Manual of Spices and Condiments: 2021 IS:7807: 1975 Ref:2019 IS 1797: 2021	----
		Acidity of Extracted Fat	IS 548 :Part 1: Sec 2: 2021	
		Alcohol Soluble Extract	FSSAI Manual of Spices and Condiments: 2021 IS 1797: 2021	
		Ammoniacum resin	FSSAI Manual of Spices and Condiments: 2021	----
		Any Other Foreign Resin	FSSAI Manual of Spices and Condiments: 2021	
		Ash Excluding Salt	IS 1797: 2021	
		Bulk Density	FSSAI Manual of Spices and Condiments: 2021	
		Energy	JPCL/STP/QC/F/38	

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
		Cold water soluble extract	FSSAI Manual of Spices and Condiments: 2021 IS 1797: 2021	----
		Colophony and Gulbanum resin	FSSAI Manual of Spices and Condiments: 2021	
		Crude Fiber	FSSAI Manual of Spices and Condiments: 2021 IS 1797: 2021	
		Extraneous Matter	FSSAI Manual of Spices and Condiments: 2021 IS 1797: 2021	
		Fat	IS 1797: 2021	
		Foreign Matter (Living insects, mould, dead insects, insect fragments and rodent contamination, sand, grit, stalks, peels, stems etc)	FSSAI Manual of Spices and Condiments: 2021	
		Insect Damaged Seeds	FSSAI Manual of Spices and Condiments: 2021	
		Mineral Oil	FSSAI Manual of Spices and Condiments: 2021	
		Moisture content	FSSAI Manual of Spices and Condiments: 2021 IS 1797: 2021	----
		Non Volatile Ether Extract	FSSAI Manual of Spices and Condiments: 2021 IS 1797: 2021	
		Salt as NaCl	IS 1797: 2021	
		Sudan 1	FSSAI Manual Food Additives: 2016	HPLC

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
		Sudan 2	FSSAI Manual Food Additives: 2016	HPLC
		Sudan 3	FSSAI Manual Food Additives: 2016	
		Sudan 4	FSSAI Manual Food Additives: 2016	
		Total Ash	FSSAI Manual of Spices and Condiments: 2021	----
		Volatile Oil	FSSAI Manual of Spices and Condiments: 2021	
			IS 1797: 2021	
		Water insoluble ash	IS 1797: 2021	
ix)	Ginger Paste, Garlic paste, Ginger-Garlic paste, Bhuna Masala, Tamarind paste	Acid Insoluble Ash	FSSAI Manual of Spices and Condiments: 2021	----
			IS 1797: 2021	
		Added Coloring & Flavouring Matter	FSSAI Manual Food Additives: 2016	
			IS 13242:2018 (Reff:2022)	
		Alcohol Soluble Extract	FSSAI Manual of Spices and Condiments: 2021	
			IS 1797: 2021	
		Ammoniacum Resin	FSSAI Manual of Spices and Condiments: 2021	
		Any Other Foreign Resin	FSSAI Manual of Spices and Condiments: 2021	
		Ash Excluding Salt	IS 1797: 2021	
Bulk Density	FSSAI Manual of Spices and Condiments: 2021			
Energy	JPL/STP/QC/F/38			

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
		Cold water soluble extract	FSSAI Manual of Spices and Condiments: 2021 IS 1797: 2021	----
		Colophony and gulanum resin	FSSAI Manual of Spices and Condiments: 2021	
		Crude Fiber	FSSAI Manual of Spices and Condiments: 2021 IS 1797: 2021	
		Moisture Content	FSSAI Manual of Spices and Condiments: 2021 IS 1797: 2021 FSSAI Manual Of Fruits and Vegetables: 2016	
		Non Volatile Ether Extract	FSSAI Manual of Spices and Condiments: 2021 IS 1797: 2021	
		Salt	IS 1797: 2021	
		Total Ash	IS 1797: 2021	
		Volatile Oil	FSSAI Manual of Spices and Condiments: 2021	
		Water insoluble ash	IS 1797: 2021	
X)	Other -Sodium Chloride, Salt, Iodized Salt & Iron Fortified Salts, Edible Common Salt, Potassium Iodate,	Alkalinity	IS 7224:2006 (Reff:2019)	----
		Iodine content	IS 7224 :2006 (Reff:2019)	
		Magnesium	IS 7224 :2006 (Reff:2019)	
		Matter insoluble in HCl	IS 253:2014)Reff:2020	
		Matter soluble in water other than sodium chloride	IS 253:2014)Reff:2020 IS 7224 :2006 (Reff:2019)	
		Moisture	IS 253:2014)Reff:2020 IS 7224 :2006 (Reff:2019)	
		pH (of aqueous solution)	IS 253:2014)Reff:2020	

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
		Sodium Chloride content	IS 7224 :2006 (Reff:2019) IS 253:2014)Reff:2020	----
		Water insoluble substances	IS 7224 :2006 (Reff:2019) IS 253:2014)Reff:2020	
7	Namkeen, Snacks & Ready to Eat	Moisture	IS 15271: 2003(Reff:2019)	----
		Acid Insoluble Ash		
		Fat		
		Acid value of extracted fat		
		Peroxide Value		
		Total ash		
		Free Fatty Acid		
		Salt	IS 1797: 2021	
		Energy	JPCL/STP/QC/F/38	
		Sugar	FSSAI Manual of Sugar and Confectionary Product : 2015	
		Protein	IS 7219:1973(Reff: 2020)	
		Dietary Fibre	FSSAI Manual Of Cereals and Cereals product:2021	
8	Cereal, pulses and cereal products (Processed cereal based complementary foods), Food Grains, Pulses, Cereals, Starch products.	Reducing sugar (calculated as anhydrous maltose)	IS 2404 :1993 (Reff:2020) FSSAI Manual Of Cereals and Cereals product:2021	----
		Acid Insoluble Ash	FSSAI Manual Of Cereals and Cereals product: 2021 IS 1009:1979 IS 1155:2022 IS 2639 :1999 (Reff:2020)	

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
		Moisture	FSSAI Manual Of Cereals and Cereals product: 2021 IS 2639 :1999 (Reff:2020) IS 1009:1979 IS 1155:2022	----
		Total ash	FSSAI Manual Of Cereals and Cereals product:2021 IS 2639 :1999 (Reff:2020)	
		Alkalinity of ash as sodium carbonate	IS 2639 :1999 (Reff:2020)	
		pH	IS 2639 :1999 (Reff:2020) FSSAI Manual Of Cereals and Cereals product: 2021	
		Fat on Dry basis	IS 2639 :1999 (Reff:2020) FSSAI Manual Of Cereals and Cereals product: 2021	----
		Crude fibre	IS 2639 :1999 (Reff:2020) FSSAI Manual Of Cereals and Cereals product: 2021 IS 10226 (Part 1) :1982 (Reff:2020)	
		Insect Damaged Seeds	FSSAI Manual Cereals and Cereals Product:2021	

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
		Crude protein (on dry basis)	FSSAI Manual Cereals and Cereals Product:2021 IS 2404 :1993 (Reff:2020)	----
		Diastatic activity	FSSAI Manual Cereals and Cereals Product:2021 IS 2404 :1993 (Reff:2020)	
		Gluten (On dry basis)	IS 1155:2022 FSSAI Manual Of Cereals and Cereals product: 2021	
		Uric acid	FSSAI Manual Of Cereals and Cereals product: 2021 IS 1155:2022	
		Acidity of Extracted Fat	IS 548 : Part 1 : Sec 1 : 2021	
		Added starch	FSSAI Manual Cereal and Cereal Products 2021 IS 4706 (Part 2): 1978 (Reff. 2020)	----
		Alcoholic acidity	FSSAI Manual Cereals and Cereals Products:2021 IS 1009:1979 IS 1155:2022	
		Broken Seeds and Shrivilled	FSSAI Manual Cereals and Cereals Products:2021	
		Carbohydrate	JPCL/STP/QC/F/38	
		Cholesterol	AOAC 21st edition, 994.10:2010	GCMS-MS

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
		Cocoa powder	FSSAI Manual Cereals and Cereals Products:2021	----
		Crude Fibre	FSSAI Manual Cereals and Cereals Products:2021 IS 1155:2022	
		Damaged grains	IS:3579: 1966 IS 4333 (Part 1):2018	
		Description	IS: 1656:2011	
		Foreign matter &Extraneous matter	FSSAI Manual Cereals and Cereals Products:2021 IS 4333 (Part 1):2018	
		Hexane	FSSAI Manual Cereals and Cereals Products:2021	GCMS-MS
		Insect damaged grains	IS:3579: 1966 IS 4333 (Part 1):2018	----
		Insect Fragments	FSSAI Manual Cereal and Cereal Products : 2021 IS 13662:2021	----
		Insoluble Dietary Fibre	FSSAI Manual Cereal and Cereal Products : 2021	
		Other food grains	IS:3579: 1966 IS 4333 (Part 1):2018	
		Protein	FSSAI Manual Cereal and Cereal Products : 2021	
		Salt as NaCl	FSSAI Manual Cereal and Cereal Products : 2021	
		Solubility	FSSAI Manual Cereal and Cereal Products : 2021	

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
		Starch	IS 4706 (Part 2):1978 (Reaff:2020)	----
			FSSAI Manual Cereal and Cereal Products : 2021	
		Reducing Sugar in malt extract	FSSAI Manual Cereal and Cereal Products : 2021	
			IS 1163: 2023	
			IS 6287: 1985 (Reff. 2020)	
		Sulphur dioxide	IS 4467: 2013	
			FSSAI Manual Of Cereals and Cereals product: 2021	
		Total Ash excluding Salt	FSSAI Manual Of Cereals and Cereals product: 2021	
9	Bakery & Confectionery Products, Biscuits, cakes, chips, wafers, pastry, brownie, muffin, Bread, Bread, bun, khari, toast, cookies, rusk	Added Colouring Matter	FSSAI Manual Food Additives: 2016	----
		Free from living insects, moulds, dead insects, insect fragments and rodent contamination	FSSAI Manual Food Additives: 2016	
		Acidity of Extracted Fat	IS:12711:1989 : 2020	
		Lactose	IS 1479 (Part 2)1961 (Reff:2018)	
		Protein	IS:7219:1973 : 2020	
		Sulphur dioxide	IS 6287: 1985 (Reff. 2020)	
		Acid Insoluble Ash	IS 1011: 2002 (Reff. 2019)	
			IS:12711:1989 : 2020	
			IS 1483:1988 (Reff:2020)	

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used	
		Alcoholic Acidity	IS:12711:1989 : 2020	----	
		Ash	IS:12711:1989 : 2020		
		Carbohydrates	JPCL/STP/QC/F/38		
		Description: -Appearance - colour - flavor - texture - taste	JPCL/STP/QC/F/40		
		Fat	IS:12711:1989 : 2020		
		Milk Solids	IS:12711:1989 : 2020		
		Moisture	IS:12711:1989 : 2020		
			IS 1011: 2002 (Reff. 2019)		
		pH	IS:12711:1989 : 2020		
			IS 1483:1988 (Reff:2020)		
		Reducing Sugar	FSSAI Manual for cereal and cereal products 2023-FSSAI 03.055:2023		----
		Salt as NaCl	IS 7874 Part 2: 1975 (Reff:2019)		----
		Sugar	FSSAI Manual for cereal and cereal products 2023-FSSAI 03.055:2023I		
		Total Solids	IS 1483:1988 (Reff:2020)		
IS:12711:1989 : 2020					
Crude Fibre	IS 1483:1988 (Reff:2020)				
	IS:12711:1989 : 2020				
10	Cocoa & Cocoa Product	Ash	FSSAI Manual Beverages, Sugar and Sugar Products and Confectionery manual:2015	----	

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
		Moisture	FSSAI Manual Beverages, Sugar and Sugar Products and Confectionery manual:2015 IS 1164 :1986 (Reff:2022)	----
		Cocoa butter (on moisture free basis)	IS 1164: 1986(Reff. 2022) FSSAI Manual Beverages, Sugar and Sugar Products and Confectionery manual:2015	----
		Acid insoluble ash (on dry basis)	IS 1164: 1986 (Reff. 2022) FSSAI Manual Beverages, Sugar and Sugar Products and Confectionery manual:2015	----
		Alkalinity of total ash as K ₂ O	IS 1164: 1986 (Reff. 2022) FSSAI Manual Beverages, Sugar and Sugar Products and Confectionery manual:2015	----
		Crude fibre	IS 1164: 1986 (Reff. 2022) FSSAI Manual Beverages, Sugar and Sugar Products and Confectionery manual:2015	----
		Caffeine	AOAC 17 th Edition, 962.25:2000	HPLC
		Solubility in cold water	IS 2791 Annex E:2022	----

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used	
11	Tea & Coffee	Moisture	FSSAI Manual Beverages, Sugar and Sugar Products and Confectionery manual:2015	----	
			IS 16028:2012(Reff :2022)		
			IS 2791:2022		
					IS 3077:2022
		Caffeine content	IS 16028:2012(Reff:2022)		
		Total ash (on dry basis)	IS 2791:2022		
			FSSAI Manual Beverages, Sugar and Sugar Products and Confectionery manual:2015		
			IS 3077:2022		
		Solubility in boiling water	IS 2791:2022		
			IS 3077:2022		
		Solubility in cold water at 16 ± 2 °C	IS 2791:2022		
			IS 3077:2022		
Acid Insoluble Ash	FSSAI Manual Beverages, Sugar and Sugar Products and Confectionery manual:2015				
	IS 3077:2022				
Alkalinity of Soluble ash	IS 13856:1993 (Reff:2023)				
	IS 3077:2022				

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
		Crude Fibre	FSSAI Manual Beverages, Sugar and Sugar Products and Confectionery manual:2015 IS 1164:1986 (Reff:2022)	----
		Fat	FSSAI Manual Beverages, Sugar and Sugar Products and Confectionery Products:2015	
		Water Extract	FSSAI Manual Beverages, Sugar and Sugar Products and Confectionery manual:2015 IS 13862:1999 (Reff:2023)	
		Water Insoluble Ash	FSSAI Manual Beverages, Sugar and Sugar Products and Confectionery manual:2015 IS 13855:1993 (Reff:2023)	----
12	Sugar & Sugar Products- Candy, lolly, chewing gum, logenze, chocolate, Jaggery	Surcose	FSSAI Manual Beverages, Sugar and Sugar Products and Confectionery manual:2015 IS 12923:1990 (Reff:2018)	----
			Reducing Sugar	

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
		Moisture	FSSAI Manual Beverages, Sugar and Sugar Products and Confectionery manual:2015 IS 12923:1990 (Reff:2018)	----
		Water insoluble matter	FSSAI Manual Beverages, Sugar and Sugar Products and Confectionery manual:2015 IS 12923:1990 (Reff:2018)	----
		Sulphated Ash	FSSAI Manual Beverages, Sugar and Sugar Products and Confectionery manual:2015 IS 12923:1990 (Reff:2018)	----
		Sulphur dioxide	FSSAI Manual Beverages, Sugar and Sugar Products and Confectionery manual:2015 IS 12923:1990 (Reff:2018)	----
		Acid insoluble ash	FSSAI Manual Beverages, Sugar and Sugar Products and Confectionery manual:2015 IS 12923:1990 (Reff:2018)	----

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
		Total Sugar	FSSAI Manual Beverages, Sugar and Sugar Products and Confectionery manual:2015	----
		Ammonical nitrogen	FSSAI Manual Beverages, Sugar and Sugar Products and Confectionery manual:2015	
		Moisture	IS 15279:2003 (Reff:2018)	
			FSSAI Manual Beverages, Sugar and Sugar Products and Confectionery manual:2015	
			IS 1151:2021	
		Conductivity	IS 15279:2003 (Reff:2018)	----
		Total ash	FSSAI Manual Beverages, Sugar and Sugar Products and Confectionery manual:2015	
		Calcium oxide	FSSAI Manual Beverages, Sugar and Sugar Products and Confectionery manual:2015	
		Carbohydrates	JPCL/STP/QC/F/38	
		Saturated Fat	ACAO 20th Edn ;996.01: 2016	GC
		Solubility in boiling water	FSSAI Manual Beverages, Sugar and Sugar Products and Confectionery manual:2015	----

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
		Total Solid	FSSAI Manual Beverages, Sugar and Sugar Products and Confectionery manual:2015	----
		Acidity	FSSAI Manual Beverages, Sugar and Sugar Products and Confectionery Products: 2015	
		Fat	FSSAI Manual Beverages, Sugar and Sugar Products and Confectionery Products: 2015 IS 1163: 2023 IS 6287: 1985 (Reff. 2020)	
		Gum content	FSSAI Manual Beverages, Sugar and Sugar Products and Confectionery Products: 2015 IS 6747: 2018	----
		Milk Fat - chocolate	FSSAI Manual Beverages, Sugar and Sugar Products and Confectionery Products: 2015	
		Milk Solids - Chocolate	FSSAI Manual Beverages, Sugar and Sugar Products and Confectionery Products: 2015	
		Milk solids (on moisture free and fat free basis)	FSSAI Manual Beverages, Sugar and Sugar Products and Confectionery Products: 2015	

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
		Protein	FSSAI Manual Beverages, Sugar and Sugar Products and Confectionery Products: 2015	----
13	Honey & Honey Products	Carbohydrates	JPCL/STP/QC/F/38	----
		Fiehes Test (Qualitative (Present/Absent))	IS 4941:1994 (Reff:2019)	
		Foreign matter	IS 4941:1994 (Reff:2019)	
		Fructose Glucose Ratio	FSSAI Manual Beverages, Sugar and Sugar Products and Confectionery Products: 2015	
			IS 4941:1994 (Reff:2019)	
		Hydroxymethyl furfural (HMF)	IS 4941:1994 (Reff:2019)	----
		Moisture	FSSAI Manual Beverages, Sugar and Sugar Products and Confectionery Products: 2015	
			IS 4941:1994 (Reff:2019)	
		Specific gravity	FSSAI Manual Beverages, Sugar and Sugar Products and Confectionery Products: 2015	
			IS 4941:1994 (Reff:2019)	
Sucrose	FSSAI Manual Beverages, Sugar and Sugar Products and Confectionery Products: 2015			
	IS 4941:1994 (Reff:2019)			

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
		Total Reducing Sugar	FSSAI Manual Beverages, Sugar and Sugar Products and Confectionery Products: 2015 IS 4941:1994 (Reff:2019)	----
		Acidity	FSSAI Manual Beverages, Sugar and Sugar Products and Confectionery Products: 2015 IS 4941:1994 (Reff:2019)	----
		Aniline Chloride test F	FSSAI Manual Beverages, Sugar and Sugar Products and Confectionery Products: 2015	----
14	Nut & Nut Products - Sesame, Soyabean, Groundnut, Sunflower, Niger, Lin seed, Rapeseed, Safflower, coconut ball, poppy, safflower, Niger seed, olive, Raisins, Almond, Cashew, Groundnut kernel, Pistachio Nuts, Dates, Dry Fruits and Nuts, Walnut	Specific gravity	IS 840:1986 (Reff:2017)	----
		Moisture	IS 840:1986 (Reff:2017) FSSAI Manual for Analysis of Fruits & Vegetable Products: 2016	----
		Matter insoluble in toluene	IS 840:1986 (Reff:2017)	----
		Loss in weight on heating	IS 840:1986 (Reff:2017)	----
		Ash	IS 840:1986 (Reff:2017) FSSAI Manual for Analysis of Fruits & Vegetable Products: 2016	----
		Damaged kernel including slightly damaged kernel	JPLC/STP/QC/F/40 IS 3579:1966 (Reff:2020)	----
		Unopened Shells - Nuts	JPLC/STP/QC/F/40 IS 3579:1966 (Reff:2020)	----

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
		Empty Shells - Nuts	JPCL/STP/QC/F/40 IS 3579:1966 (Reff:2020)	----
		Damaged Raisins	JPCL/STP/QC/F/40 IS 3579:1966 (Reff:2020)	
		Blemished / Damaged	JPCL/STP/QC/F/40 IS 3579:1966 (Reff:2020)	
		Shrivelled and Immature	JPCL/STP/QC/F/40 IS 3579:1966 (Reff:2020)	----
		Sugared Raisins	FSSAI Manual for Analysis of Fruits & Vegetable Products: 2016	
		Ash insoluble in dil Hcl	FSSAI Manual for Analysis of Fruits & Vegetable Products: 2016	
		Iodine Value	IS 840:1986 (Reff:2017)	
		Oil Content	IS 3579:1966 (Reff:2020)	
		Sugar	FSSAI Manual for Analysis of Fruits & Vegetable Products: 2016	
		Moisture	IS 3579:1966 (Reff:2020)	
		Total fat	IS 3579:1966 (Reff:2020)	
		Extraneous matter	JPCL/STP/QC/F/40 IS 840:1986 (Reff:2017)	
		pH	FSSAI Manual for Analysis of Fruits & Vegetable Products: 2016	
		Free fatty acid (expressed as oleic acid)	IS 548:Part 1 :Sec 1 : 2021 FSSAI Manual for Oils And Fats: 2021	

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
15	Fruit & Fruit Products (Raw And Processed)	Extraneous matter	IS:3579: 1966	----
			FSSAI Manual Of Fruits and Vegetables: 2016	
		Acid Insoluble Ash	FSSAI Manual Of Fruits and Vegetables: 2016	
			IS 13846:2009 (Reff:2022)	
			IS 3500:2020	
		Added colouring matter	FSSAI Manual Of Fruits and Vegetables: 2016	
		Added Sugar	FSSAI Manual Of Fruits and Vegetables: 2016	
		Brix	IS 13815 :2009(Reff:2022)	
		Carbohydrates	JPCL/STP/QC/F/38	
		Description: -Appearance - colour - flavor - texture - taste	IS 14267 (Part 3) :1995 (Reff:2018)	
			IS 4624:1978 (Reff:2018)	
			IS 5861 :2019 Visual examination	
		Drained weight	FSSAI Manual Of Fruits and Vegetables: 2016	
Foreign matter (Living insects, mold, dead insects, insect fragents and rodent contamination, sand, grit, stalks, peels, stems)	FSSAI Manual Of Fruits and Vegetables: 2016			
	IS 14267 (Part 3) :1995 (Reff:2018)			
Moisture	FSSAI Manual Of Fruits and Vegetables: 2016			

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
		pH	FSSAI Manual Of Fruits and Vegetables: 2016 IS 2860:1964	----
		Reducing Sugar	FSSAI Manual Of Fruits and Vegetables: 2016	
		Salt	FSSAI Manual Of Fruits and Vegetables: 2016	
		Total Ash	FSSAI Manual Of Fruits and Vegetables: 2016 IS 13846:2009 (Reff:2022) IS 3500:2020	
		Total Soluable Solids / Dry Matter Content	FSSAI Manual Of Fruits and Vegetables: 2016 IS 3882:1966 (Reff:2019)	
		Water Insoluble Solids	IS 13845: 2003 Reff. 2022	
		16	Food additives & Preservatives: Caramel	
		Solid content	IS 4467 : 2013	
17	Food Colours	Dye Content	IS 1699:1995 (Reff:2020)	
		Ether Extract	IS 1699:1995 (Reff:2020)	
		Foreign Matter	FSSAI Manual Food Additives: 2016	
		Loss on drying	IS 1699:1995 (Reff:2020)	
		Water insoluble matter	IS 1699:1995 (Reff:2020)	
18	Milk & Dairy Products	Acid Insoluble Ash	FSSAI Manual of Milk and Milk Products: 2022	
			IS 14433 :2022	

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
		Moisture	IS 11623 :2008(Reff:2022) IS 16072 :2012(Ref:2018) FSSAI Manual of Milk and Milk Products: 2022	----
		Milk fat	FSSAI Manual of Milk and Milk Products: 2022 IS 11721 :2013(Reff:2022)	
		Milk Fat (Canned Rasogolla)	IS 4079:2023 Appendix B	
		Milk Fat (Condensed Milk)	IS: 1166:2022 Appendix C	
		Milk Fat (Dried Ice-Cream)	IS 7839:2022 Appendix A	
		Milk protein	FSSAI Manual of Milk and Milk Products: 2022 IS 11917 : 2018	
		Insolubility index	IS 12759 : 2019 FSSAI Manual of Milk and Milk Products: 2022	
		Toal Ash	FSSAI Manual of Milk and Milk Products: 2022 IS 14433 Annex. B	
		Total added sugar	FSSAI Manual of Milk and Milk Products: 2022	
		Titratable acidity	IS 1165 Annex. B FSSAI Manual of Milk and Milk Products: 2022	
		Titration acidity (Lactic acid)	IS 1165:2022	
		Titration Acidity(Cream)	IS 3509:1966 (Reff:2018)	
		Titration Acidity(Dried IceCream)	IS 7839:2022	

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
		Titrateable Acidity(Paneer)	IS: 10484:2021	----
		Scorched particle	FSSAI Manual of Milk and Milk Products: 2022 IS 13500: 1992(Reff:2022)	
		Starch - Khoa	FSSAI Manual of Milk and Milk Products: 2022 IS 1479 (PART 1):2016 (Reff:2019) IS 1806:2018	
		Ammonium salt	FSSAI Manual of Milk and Milk Products: 2022	
		Boric acid	FSSAI Manual of Milk and Milk Products: 2022	
		Carbonates	IS 1479 : Part 1 : 2016 (Reff : 2021)	
		Crude Fibre	FSSAI Manual of Milk and Milk Products: 2022 IS 10226 : Part 1 : 1982 (Reff : 2020)	
		Description: - Appearance - Colour - Flavour - Texture - Taste	JPCL/STP/QC/F/40	
		Flavour and Odour	JPCL/STP/QC/F/40	
		Fat (Evaporated Milk & Sweetened Condensed Milk)	FSSAI Manual of Milk and Milk Products: 2022	
		Free fatty acid ml/0.1NaOH/g	FSSAI Manual of Milk and Milk Products: 2022	
		Lactose	FSSAI Manual of Milk and Milk Products: 2022 IS 1479 (Part 2)1961 (Reff:2018)	

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Chemical Testing (Laboratory Based)

S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
		Mineral Oils	FSSAI Manual of Milk and Milk Products: 2022	----
		Neutralizer	IS 1479 (Part 2) : 1961 (Reff:2018)	
			FSSAI Manual of Milk and Milk Products: 2022	
		pH	FSSAI Manual of Milk and Milk Products: 2022	
			IS:12711:1989 : 2020	
			IS 1479 (Part 2)1961 (Reff:2018)	
		Phosphates Test	FSSAI Manual of Milk and Milk Products: 2022	
		Reichert value I	FSSAI Manual of Milk and Milk Products: 2022	
			IS 548:Part 1 :Sec 2 : 2021	
		SNF	FSSAI Manual of Milk and Milk Products: 2022	
		Solubility	FSSAI Manual of Milk and Milk Products: 2022	
		Solubility Index	FSSAI Manual of Milk and Milk Products: 2022	
		Sucrose	FSSAI Manual of Milk and Milk Products: 2022	
			IS 1166:2022	
		Test for glucose	FSSAI Manual of Milk and Milk Products: 2022	
		Total Milk Solids	IS 1166:2022	
			FSSAI Manual of Milk and Milk Products: 2022	
		Carbohydrates	JPCL/STP/QC/F/38	

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
19	Edible Oil & Fats	Turbidity Test	IS 4238:2020	----
		Urea in Milk and Milk products	FSSAI Manual of Milk and Milk Products: 2022	
			IS 1479 (Part 2)1961 (Reff:2018)	
		Cold Test	FSSAI Manual for Oils And Fats: 2021	
		Cotton Seed oil (Halphen Test) I	IS 548 (Part 2) :1976 (Reff:2020)	
			FSSAI Manual for Oils And Fats: 2021	
		Description: -Appearance - colour - flavor - texture - taste	JPCL/STP/QC/F/40	
		Specific Gravity	IS 548:Part 1 :Sec 1 : 2021	
			FSSAI Manual for Oils And Fats: 2021	
		Acid value	FSSAI Manual for Oils And Fats: 2021	
			IS 548:Part 1 :Sec 1 : 2021	
		Argemone Oil Test	FSSAI Manual for Oils And Fats: 2021	
			IS 548 (Part 2) :1976 (Reff:2020)	
		Baudouin Test/sesame oil	FSSAI Manual for Oils And Fats: 2021	
IS 548 (Part 2) :1976 (Reff:2020)				

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used	
		Butyro - refractometer reading at 40°C (Brix)	FSSAI Manual for Oils And Fats: 2021 IS 548:Part 1 :Sec 1 : 2021	----	
		Castor oil	FSSAI Manual for Oils And Fats: 2021 IS 548:Part 1 :Sec 1 : 2021		
		Cloud Point	FSSAI Manual for Oils And Fats: 2021		
		Cloud point (Sesame (Til) oil test)	FSSAI Manual for Oils And Fats: 2021 IS 548 (Part 2) :1976 (Reff:2020)		
		Detection of Adulterants	IS 548 (Part 2) :1976 (Reff:2020)		
		Erucic acid (as % of total fatty acid)	AOAC 21st Edition, 996.06:2012		
		Fat	FSSAI Manual for Oils And Fats: 2021 IS 548:Part 1 :Sec 1 : 2021		
		Flash Point	FSSAI Manual for Oils And Fats: 2021		
		Free Fatty Acid	FSSAI Manual for Oils And Fats: 2021 IS 548:Part 1 :Sec 1 : 2021 IS 548 (Part 2) :1976 (Reff:2020)		
		Hexane content	FSSAI Manual for Oils And Fats: 2021		GCMS-MS
		Individual Fatty Acids (C4 to C24)	AOAC 21st edition, 996.06:2012		

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
		Iodine Value	FSSAI Manual for Oils And Fats: 2021 IS 548:Part 1 :Sec 1 : 2021	----
		Linseed oil (Hexa bromide test	FSSAI Manual for Oils And Fats: 2021 IS 548 (Part 2) :1976 (Reff:2020)	
		Melting Point	IS 548 (Part 2) :1976 (Reff:2020) FSSAI Manual for Oils And Fats: 2021	
		Mineral Oil (Hold 's test)	AOAC 21 st edition, 945.102-1945 FSSAI Manual for Oils And Fats: 2021	
		Moisture	FSSAI Manual for Oils And Fats: 2021 IS 3508: 1966 (Reff : 2018) IS 548:Part 1 :Sec 1 : 2021	
		Monounsaturated Fatty Acids (MUFA)	AOAC Official Methods s 17 th Ed., 996.01: 2000	GCMS-MS
		Polyunsaturated Fatty Acids (PUFA)	AOAC Official Methods s 17 th Ed., 996.01: 2000	
		Peroxide Value	FSSAI Manual for Oils And Fats: 2021 IS 548:Part 1 :Sec 1 : 2021	----
		Polenske value	FSSAI Manual for Oils And Fats: 2021	
		Rancidity	FSSAI Manual for Oils And Fats: 2021	

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used		
		Residue in Olive Oil	FSSAI Manual for Oils And Fats: 2021	----		
		Saponification Value	FSSAI Manual for Oils And Fats: 2021 IS 548:Part 1 :Sec 1 : 2021	----		
		Saturated Fatty acid	AOAC Official Methods s 17 th Ed., 996.01: (2000)	GCMS-MS		
		Semi Siccative oil in olive oil	FSSAI Manual for Oils And Fats: 2021	----		
		Sesame seed oil test				
		Trans fat	AOAC Official Methods s 17 th Ed., 996.01: 2000	GCMS-MS		
		Volatile Oil	AOAC 21st edition, 962.17:1996 FSSAI Manual for Oils And Fats: 2021	----		
		Turbidity	IS 548:Part 1 :Sec 1 : 2021			
		Total Polar Compounds	AOAC Official Methods 982.27:2002			
		Total Ash	IS 4684-1975 : 2022 FSSAI Manual for Oils And Fats: 2021			
		20	Meat & meat products	Fat	FSSAI MANUAL Meat & Meat Product :2016 IS 5960 : Part 4 : 1997 (Reff : 2020)	----
				Acid insoluble In HCl	FSSAI MANUAL Meat & Meat product :2016	----
				Ash		
	Total Protein					
	Moisture					
		pH				

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
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Group : Trace Element

1	Health Nutritional supplement product, Nuetracetucals and Functional Food (Mineral and vitamin premix, Horlics, women's horlics, nutrient premixes, nutritional premix) Bakery & Confectionery Products, Beverage (Alcoholic and Non Alcoholic), Canned and Processed food, Cereal Pulse and Cereal Products, Fruit and Fruits Products, Herbs Spices and Condiments / Jam/Juices/Concentrated / Sauces, Meat and Meat Products, Chicken and Chicken Products, Eggs, Nut and Nut Products, Snack and Instant Mixes, Honey and Honey Products, Milk and Milk (Dairy) Products, Instant Food, Vegetable and Vegetable Products. Cattle feed, poultry feed, Colour, Flavor and	Arsenic	FSSAI Manual of metals 5th edition : 2021	ICPMS
			AOAC Official Method 986.15:1996	
		Cadmium	FSSAI Manual of metals 5th edition : 2021	
			AOAC Official Method 986.15:1996	
		Copper	FSSAI Manual of metals 5th edition : 2021	
		Lead	FSSAI Manual of metals 5th edition : 2021	
			AOAC Official Method 986.15:1996	
		Mercury	AOAC Official Method 986.15:1996	
			FSSAI Manual of metals 5th edition : 2021	
		Methyl mercury	AOAC Official Method 988.11:1988	
			FSSAI Manual of metals 5th edition : 2021	
		Nickel	FSSAI Manual of metals 5th edition : 2021	
Selenium	AOAC Official Method 996.16:1997			
Tin	FSSAI Manual of metals 5th edition : 2021			
Iron	FSSAI Manual of metals 5th edition : 2021			

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
	Preservatives, Honey and honey products, Soft drinks, Food Colour, Animal Feed, Raw Pulses	Zinc	FSSAI Manual of metals 5th edition : 2021	
2	Water	Aluminum	IS 3025(Part 65) 2022	ICPMS
		Arsenic		
		Cadmium		
		Chromium		
		Iron	APHA 3125 24th Edition 2023	
			IS 3025(Part65) 2022	
		Lead	IS 3025: Part 65: 2022	
		Mercury	APHA 3500 24th Edition 2023	
		Nickel	IS 3025(Part 65) 2022	
		Potassium		
		Selenium		
		Zinc		
		Antimony		
		Boron		
		Copper		
		Sodium		
		Barium		
		Manganese		
		Molybdneum		
		Uranimum		

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
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Group: Residue /Toxic Contaminants

1	Cereal Pulse and Cereal Products,	Profenofos	STP/QC/419: 2023	GCMS-MS
		Propamocarb		
		Pyraclostrobin		
		Pyridaben		
		Pyrimethanil		
		Pyriproxyfen		
		Tebuconazole		
		Triadimefon		
		Trifloxystrobin		
		Triflumizole		
2	Milk and Milk (Dairy) Products,	Diethofencarb	STP/QC/109: 2021	GCMS-MS
		Diclotophos		
		Cyproconazole		
		Dichlorvos		
		Alachlor		
		Azoxystrobin		
		Benalaxyl M		
		Butachlor		
		Carboxin		
		Chlorbenzilate		
		Chlorpyrifos		
		Chlorpyrifos Methy		
		Coumaphos		

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
3	Herbs Spices and Condiments	Alachlor	STP/QC/072/2021	GCMS-MS
		Amitraz		
		Azoxystrobin		
		Benalaxyl M		
		Bifenazate		
		Bitertanol		
		Boscalid		
		Butachlor		
		Carboxin		
4	Peanut and Peanut Products	Cypermethrin	STP/QC/0401/2023	GCM-MS
		Chlorothalonil		
		Disulfoton		
		Metalaxyl		
		Permethrin		
		Quintozene		
		Tebuconazole		
5	Oils, Fats & it's by Products	Alachlor	STP/QC/089/2021	GCMS-MS
		Aldrin G		
		Alpha HCH		
		Beta HCH		
		Chlordane (cis + trans)		
		Chlorfenvinphos		
		Chlorothalonil		
		Chlorpyrifos		
		Delta HCH		
		Dieldrin		
		Endosulfan A		
		Endosulfan B		
		Endosulfan Sulphate		

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
		Malathion	STP/QC/089/2021	GCMS-MS
		Profenophos		
		p,p-DDE		
		p,p-DDT		
		Parathion		
		Parathion Methyl		
		Phenthoate		
		Phorate		
6	Sesame Seeds (Foods)	Ethylene oxide & 2-Chloroethanol	STP/QC/404: 2023	GCMS-MS
7	Meat & Meat Products	Alachlor	STP/QC/198:2021	GCMS-MS
		Amitraz		
		Azoxystrobin		
		Benalaxyl		
		Bifenazate		
		Bitertanol		
		Boscalid		
		Butachlor		
		Carboxin		
		Chlorbenzilate		
		Chlorfenvinphos		
		Chlorpyrifos		
		Chlorpyrifos Methyl		
		Coumaphos		
		Cyproconazole		
		Cyprodinil		

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
		DDT	STP/QC/198:2021	GCMS-MS
		Dichlorvos		
		Dicrotophos		
		Dimethoate		
		Diniconazole		
		EPN		
		Ethion		
		Ethofumesate		
		Etoxazole		
		Fenamidone		
		Fenarimol		
8.	Water	Trichloroethane and Tetrachloroethane	STP/QC/402: 2022	GCMS-MS
		Trihalomethanes - a) Bromoform,	JPCLPL/AMV/P/21/017: 2021	
		Trihalomethanes: b) Dibromochloromethane		
		Trihalomethanes: c) Bromodichloromethane		
		Trihalomethanes: Chloroform	JPCL/V/P/2020/016 Issue No: 00 Issue date: 10:12:2020	
		Aldrin		
		Alachlor		
		Alpha-HCH		
		Atrazine		
		Beta-Endosulphane		
		Beta-HCH		
		Butachlor		
		Chloropyrifos		
		DDD-o,p		

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
		DDD-p,p	JPCL/V/P/2020/016 Issue No: 00 Issue date: 10:12:2020	GCMS-MS
		DDE-o,p		
		DDE-p,p		
		DDT-o,p		
		DDT-p,p		
		Delta-HCH		
		Dieldrin		
		Endosulphane Sulphate		
		2,2',3',4,6- Pentachlorobiphenyl	JPCL/AMV/R/2017/01 Issue No: 00 Issue date: 23 :03: 2017	
		2,2',3,3',4,4',6- Heptachlorobiphenyl		
		2,2',3,3',4,5',6,6'- Octachlorobiphenyl		
		2,2',4,4',5,6'- Hexachlorobiphenyl		
		2,2',4,4'- Tetrachlorobiphenyl		
		2,2',4,4'- Tetrachlorobiphenyl		
		2,3-Dichlorobiphenyl		
		2,4,5-Trichlorobiphenyl		
		2-Chlorobiphenyl		
		Acenaphthylene		
		Anthracene		
		Benzo(a)anthracene		
		Benzo(a)pyrene		
		Benzo(b)fluranthene		
		Benzo(g,h,i)perylene		
		Benzo(k)fluranthene		
		Chrysene		

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
		Dibenzo(a,h)anthracene	JPCL/AMV/R/2019/029 Issue No: 00 Issue date: 19 :04: 2019	GCMS-MS
		Fluoanthene		
		Fluorene		
		Indeno(1,2,3-cd)pyrene		
		Napthalene		
		Phenanthrene		
		Pyrene		
		2,4- Dichlorophenoxyacetic acid	USEPA: 2007	
		Acrylamide	US EPA 8081 A: 2007	
		Alachlor		
		Aldrin/ Dieldrin		
		Alpha HCH	US EPA 8141A: 2007	
		Atrazine		
		Beta HCH	US EPA 8081A: 2007	
		Butachlor	USEPA: 2007	
		Chlorpyrifos		
		DDT (o, p and p, p –Isomers of DDT,DDE and DDD)		
		Delta HCH		
		Endosulfan (alpha, beta, and sulphate		
		Ethion		
		Gamma — HCH (Lindane)		
		Isoproturon		
		Malathion		
		Methyl parathion		
		Monocrotophos		
		Phorate		
		Vinyl chloride		

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S. No.	Material/Products	Component /Parameter/ Characteristic Tested	Test Method	Equipment Used
		2-Chlorobiphenyl	JPCL/AM/R/19/029: 2019	GCMS-MS
		2,2,3,4,4,5-Hexachlorobiphenyl		
		2,2,3,4,5,5-Hexachlorobiphenyl		
		2,2,3,4,5-Pentachlorobiphenyl		
		2,2,3,5-Tetrachlorobiphenyl		
		2,2,4,5,5-Pentachlorobiphenyl		
		2,2,5,5-Tetrachlorobiphenyl		
		2,2,5-Trichlorobiphenyl		
		2,3 Dichlorobiphenyl		
		2,3,3,4,6-Pentachlorobiphenyl		
		2,3,4,4-Tetrachlorobiphenyl		
		2,4,5-Trichlorobiphenyl		

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