

# **CERTIFICATE OF ACCREDITATION**

This is to attest that

#### NAWAL ANALYTICAL LABORATORIES

PLOT NO 98-A1, 100 & 109, NEW SIDCO INDUSTRIAL ESTATE, SRI NAGAR HOSUR, TN, 635109, INDIA

**Testing Laboratory TL-1140** 

has met the requirements of AC89, *IAS Accreditation Criteria for Testing Laboratories*, and has demonstrated compliance with ISO/IEC Standard 17025:2017, *General requirements for the competence of testing and calibration laboratories*. This organization is accredited to provide the services specified in the scope of accreditation.

Effective Date February 9, 2024



President

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#### NAWAL ANALYTICAL LABORATORIES

www.website.com

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Accredited to ISO/IEC 17025:2017

Effective Date February 9, 2024

MICROBIOLOGICAL TES	MICROBIOLOGICAL TESTING	
Microbiological Analysis in Animal Feed Products (Feed Material, Feed Additive & Feed Products)		
ISO 4832:2006	Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of coliforms — Colony-count technique	
ISO 4833-1	Microbiology of the Food Chain-Horizontal Method for the enumeration of Microorganisms – Part 1: Colony Count at 30 °C by the Pour Plate Technique	
ISO 6579: Part-1:2017	Microbiology of the food chain — Horizontal method for the detection, enumeration and serotyping of <i>Salmonella</i> — Part 1: Detection of Salmonella spp	
ISO 6888: Part-1:2021	Microbiology of the food chain — Horizontal method for the enumeration of coagulase-positive staphylococci ( <i>Staphylococcus aureus</i> and other species) — Part 1: Method using Baird-Parker agar medium	
ISO 7937:2004	Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of <i>Clostridium perfringens</i> — Colony-count technique	
ISO 11290: Part-1:2017	Microbiology of the food chain — Horizontal method for the detection and enumeration of <i>Listeria monocytogenes</i> and of Listeria spp. — Part 1: Detection method	
ISO 16649: Part-2:2001	Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of beta-glucuronidase-positive <i>Escherichia coli</i> — Part 2: Colony-count technique at 44 degrees C using 5-bromo-4-chloro-3-indolyl beta-D-glucuronide	
ISO 21527-2	Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of yeasts and moulds — Part 2: Colony count technique in products with water activity less than or equal to 0,95	
ISO 21528: Part-2:2017	Microbiology of the food chain — Horizontal method for the detection and enumeration of Enterobacteriaceae — Part 2: Colony-count technique	
ISO 21872: Part-1:2017	Microbiology of the food chain — Horizontal method for the determination of Vibrio spp. — Part 1: Detection of potentially enteropathogenic <i>Vibrio parahaemolyticus, Vibrio cholerae</i> and <i>Vibrio vulnificus</i>	

Microbiological Analysis in Ayush, Herbal & its Products





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Ayurvedic Pharmacopeia of India, 2016, Part 1 Volume IX Chapter 3.2, Clause 3.2.2	Detection of <i>Pseudomonas aeruginosa</i>
ISO 4832:2006	Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of coliforms — Colony-count technique
ISO 4833: Part -1	Microbiology of the food chain — Horizontal method for the enumeration of microorganisms — Part 1: Colony count at 30 °C by the pour plate technique
ISO 6579: Part-1:2017	Microbiology of the food chain — Horizontal method for the detection, enumeration and serotyping of Salmonella — Part 1: Detection of Salmonella spp
ISO 6888: Part-1:2021	Microbiology of the food chain — Horizontal method for the enumeration of coagulase-positive staphylococci (Staphylococcus aureus and other species) — Part 1: Method using Baird-Parker agar medium
ISO 7937:2004	Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of Clostridium perfringens — Colony-count technique
ISO 11290: Part-1:2017	Microbiology of the food chain — Horizontal method for the detection and enumeration of <i>Listeria monocytogenes</i> and of Listeria spp. — Part 1: Detection method
ISO 16649: Part-2:2001	Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of beta-glucuronidase-positive Escherichia coli — Part 2: Colony-count technique at 44 degrees C using 5-bromo-4-chloro-3-indolyl beta-D-glucuronide
ISO 21527-2	Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of yeasts and moulds — Part 2: Colony count technique in products with water activity less than or equal to 0,95
ISO 21528: Part-2:2017	Microbiology of the food chain — Horizontal method for the detection and enumeration of Enterobacteriaceae — Part 2: Colony-count technique
ISO 21872: Part-1:2017	- Microbiology of the food chain — Horizontal method for the determination of Vibrio spp. — Part 1: Detection of potentially enteropathogenic Vibrio parahaemolyticus, Vibrio cholerae and Vibrio vulnificus
Microbiological Analysis in (	Cereals, Pulses & its Products
ISO 4832:2006	Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of coliforms — Colony-count technique
ISO 4833: Part -1	Microbiology of the food chain — Horizontal method for the enumeration of microorganisms — Part 1: Colony count at 30 °C by the pour plate technique
ISO 6579: Part-1:2017	Microbiology of the food chain — Horizontal method for the detection, enumeration and serotyping of Salmonella — Part 1: Detection of Salmonella spp





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ISO 6888: Part-1:2021	Microbiology of the food chain — Horizontal method for the enumeration of coagulase-positive staphylococci (Staphylococcus aureus and other species) — Part 1: Method using Baird-Parker agar medium
ISO 7937:2004	Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of Clostridium perfringens — Colony-count technique
ISO 11290: Part-1:2017	Microbiology of the food chain — Horizontal method for the detection and enumeration of Listeria monocytogenes and of Listeria spp. — Part 1: Detection method
ISO 16649: Part-2:2001	Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of beta-glucuronidase-positive Escherichia coli — Part 2: Colony-count technique at 44 degrees C using 5-bromo-4-chloro-3-indolyl beta-D-glucuronide
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ISO 21528: Part-2:2017	Microbiology of the food chain — Horizontal method for the detection and enumeration of Enterobacteriaceae — Part 2: Colony-count technique
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Microbiological Analysis i	n Marine, Aqua, Fish & its Products
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ISO 4833: Part -1	Microbiology of the food chain — Horizontal method for the enumeration of microorganisms — Part 1: Colony count at 30 °C by the pour plate technique
ISO 6579: Part-1:2017	Microbiology of the food chain — Horizontal method for the detection, enumeration and serotyping of Salmonella — Part 1: Detection of Salmonella spp
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ISO 11290: Part-1:2017	Microbiology of the food chain — Horizontal method for the detection and enumeration of Listeria monocytogenes and of Listeria spp. — Part 1: Detection method
ISO 16649: Part-2:2001	Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of beta-glucuronidase-positive Escherichia coli — Part 2: Colony-count technique at 44 degrees C using 5-bromo-4-chloro-3-indolyl beta-D-glucuronide





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ISO 21527-1	Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of yeasts and moulds — Part 1: Colony count technique in products with water activity greater than 0,95
ISO 21527-2	Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of yeasts and moulds — Part 2: Colony count technique in products with water activity less than or equal to 0,95
ISO 21528: Part-2:2017	Microbiology of the food chain — Horizontal method for the detection and enumeration of Enterobacteriaceae — Part 2: Colony-count technique
ISO 21872: Part-1:2017	Microbiology of the food chain — Horizontal method for the determination of Vibrio spp. — Part 1: Detection of potentially enteropathogenic Vibrio parahaemolyticus, Vibrio cholerae and Vibrio vulnificus
Microbiological Analysis	in Fruits, Vegetable & its Products Including Guar Gum
ISO 4832:2006	Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of coliforms — Colony-count technique
ISO 4833: Part -1	Microbiology of the food chain — Horizontal method for the enumeration of microorganisms — Part 1: Colony count at 30 °C by the pour plate technique
ISO 6579: Part-1:2017	Microbiology of the food chain — Horizontal method for the detection, enumeration and serotyping of Salmonella — Part 1: Detection of Salmonella spp
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ISO 16649: Part-2:2001	Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of beta-glucuronidase-positive Escherichia coli — Part 2: Colony-count technique at 44 degrees C using 5-bromo-4-chloro-3-indolyl beta-D-glucuronide
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ISO 21528: Part-2:2017	Microbiology of the food chain — Horizontal method for the detection and enumeration of Enterobacteriaceae — Part 2: Colony-count technique
Microbiological Analysis i	n Herbs, Spices, Condiments & its Products
ISO 4832:2006	Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of coliforms — Colony-count technique
ISO 4833: Part -1	Microbiology of the food chain — Horizontal method for the enumeration of microorganisms — Part 1: Colony count at 30 °C by the pour plate technique
ISO 6579: Part-1:2017	Microbiology of the food chain — Horizontal method for the detection, enumeration and serotyping of Salmonella — Part 1: Detection of Salmonella spp
ISO 6888: Part-1:2021	Microbiology of the food chain — Horizontal method for the enumeration of coagulase-positive staphylococci (Staphylococcus aureus and other species) — Part 1: Method using Baird-Parker agar medium
ISO 7937:2004	Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of Clostridium perfringens — Colony-count technique
ISO 11290: Part-1:2017	Microbiology of the food chain — Horizontal method for the detection and enumeration of Listeria monocytogenes and of Listeria spp. — Part 1: Detection method
ISO 16649: Part-2:2001	Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of beta-glucuronidase-positive Escherichia coli — Part 2: Colony-count technique at 44 degrees C using 5-bromo-4-chloro-3-indolyl beta-D-glucuronide
ISO 21527-2	Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of yeasts and moulds — Part 2: Colony count technique in products with water activity less than or equal to 0,95
ISO 21528: Part-2:2017	Microbiology of the food chain — Horizontal method for the detection and enumeration of Enterobacteriaceae — Part 2: Colony-count technique
ISO 21872: Part-1:2017	Microbiology of the food chain — Horizontal method for the determination of Vibrio spp. — Part 1: Detection of potentially enteropathogenic Vibrio parahaemolyticus, Vibrio cholerae and Vibrio vulnificus
Microbiological Analysis i	n Oil Seeds & its Products
ISO 4832:2006	Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of coliforms — Colony-count technique
ISO 4833: Part -1	Microbiology of the food chain — Horizontal method for the enumeration of microorganisms — Part 1: Colony count at 30 °C by the pour plate technique
ISO 6579: Part-1:2017	Microbiology of the food chain — Horizontal method for the detection, enumeration and serotyping of Salmonella — Part 1: Detection of Salmonella spp.





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ISO 6888: Part-1:2021	Microbiology of the food chain — Horizontal method for the enumeration of coagulase-positive staphylococci (Staphylococcus aureus and other species) — Part 1: Method using Baird-Parker agar medium
ISO 7937:2004	Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of Clostridium perfringens — Colony-count technique
ISO 11290: Part-1:2017	Microbiology of the food chain — Horizontal method for the detection and enumeration of Listeria monocytogenes and of Listeria spp. — Part 1: Detection method
16649: Part-2:2001	Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of beta-glucuronidase-positive Escherichia coli — Part 2: Colony-count technique at 44 degrees C using 5-bromo-4-chloro-3-indolyl beta-D-glucuronide
ISO 21527-2	Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of yeasts and moulds — Part 2: Colony count technique in products with water activity less than or equal to 0,95
ISO 21528: Part-2:2017	Microbiology of the food chain — Horizontal method for the detection and enumeration of Enterobacteriaceae — Part 2: Colony-count technique
ISO 21872: Part-1:2017	Microbiology of the food chain — Horizontal method for the determination of Vibrio spp. — Part 1: Detection of potentially enteropathogenic Vibrio parahaemolyticus, Vibrio cholerae and Vibrio vulnificus
Microbiological Analysis i	n Tea, Coffee & its Products
ISO 4832:2006	Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of coliforms — Colony-count technique
ISO 4833: Part -1	Microbiology of the food chain — Horizontal method for the enumeration of microorganisms — Part 1: Colony count at 30 °C by the pour plate technique
ISO 6579: Part-1:2017	Microbiology of the food chain — Horizontal method for the detection, enumeration and serotyping of Salmonella — Part 1: Detection of Salmonella spp
ISO 6888: Part-1:2021	Microbiology of the food chain — Horizontal method for the enumeration of coagulase-positive staphylococci (Staphylococcus aureus and other species) — Part 1: Method using Baird-Parker agar medium
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ISO 11290: Part-1:2017	Microbiology of the food chain — Horizontal method for the detection and enumeration of Listeria monocytogenes and of Listeria spp. — Part 1: Detection method
ISO 16649: Part-2:2001	Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of beta-glucuronidase-positive Escherichia coli — Part 2: Colony-count technique at 44 degrees C using 5-bromo-4-chloro-3-indolyl beta-D-glucuronide





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ISO 21872: Part-1:2017	Microbiology of the food chain — Horizontal method for the determination of Vibrio spp. — Part 1: Detection of potentially enteropathogenic Vibrio parahaemolyticus, Vibrio cholerae and Vibrio vulnificus
Quantitative GMO Analysis	of Oil Seeds & its Products
NAL/GMO/SOP/013	Genetically modified organism -Screening of reference gene, target gene and quantification of soya events by Real Time Polymerase Chain Reaction in Soya & its products- Soya events GTS 40-3-2, A2704-12, A5547-127, MON89788, DAS44406 and FG72
Qualitative GMO Analysis of	Oil Seeds & its Products
NAL/GMO/SOP/013	Genetically modified organism -Screening of reference gene, target gene and quantification of soya events by Real Time Polymerase Chain Reaction in Soya & its products-Soya events GTS 40-3-2, A2704-12, A5547-127, MON89788, DAS44406, FG72 and DP305423
CHEMICAL TESTING	
	Feed Material, Feed Additive & Feed Products) alysis in Feed Material, Feed Additive and Feed Products
AOCS Standard Procedure Ba 10b-09	Determination of Protein Dispersibility Index (PDI)
AOCS Official Method Ba 11- 65	Determination of Nitrogen Solubility Index (NSI)
AOCS 7th Edition Ba12 – 75	Determination of the total and residual trypsin inhibitors in food and feed products under the conditions of the test
EN 16279:2012	Determination of fluoride content after hydrochloric acid treatment by ion- sensitive electrode method
IS 7874: Part 1: 1975	Methods Of Tests for Animal Feeds and Feeding Stuffs: Part 1 General Methods
ISO 5506 :1988	Soya Bean Products — Determination of Urease Activity
ISO 5983: Part 1: 2005	Animal Feeding Stuffs — Determination of Nitrogen Content and Calculation of Crude Protein Content — Part 1: Kjeldahl Method
ISO 5983: Part 2: 2009	Animal Feeding Stuffs — Determination of Nitrogen Content and Calculation of Crude Protein Content — Part 2: Block Digestion and Steam Distillation Method
ISO 5984:2022	Determination of crude ash





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ISO 5985: 2002	Animal Feeding Stuffs — Determination of Ash Insoluble in Hydrochloric Acid
ISO 6492:1999	Animal Feeding Stuffs — Determination of Fat Content
ISO 6496:1999	Animal Feeding Stuffs — Determination of Fat Content
ISO 6654:1991	Determination of urea content
ISO 6865:2000	Animal Feeding Stuffs — Determination of Crude Fibre Content — Method with Intermediate Filtration
ISO 14244:2014	Oilseed Meals — Determination of Soluble Proteins in Potassium Hydroxide Solution
Toxins in Feed Material, Fee	d Additive and Feed Products
ISO 14718:1998	Determination of aflatoxin B1 content of mixed feeding stuffs
ISO 17375:2006	Determination of aflatoxin B1 in Animal feeding stuffs
Environmental Pollutant in F	eed Material, Feed Additive and Feed Products
NAL/INS/SOP/GC026C	Methods of analysis - Determination of dioxins and dioxin-like PCBs and Non dioxin like PCBs by GC-MS/MS in Animal feed and foods.
Metals & Minerals in Feed M	aterial, Feed Additive and Feed Products
AOAC 2013.06 (As, Cd, Pb, Hg)	Heavy Metals in Food Inductively Coupled Plasma–Mass Spectrometry
NAL/INS/SOP/ICPMS008 (Ni, K, Na)	Determination of heavy Metals in Food & Food products
Pesticide Residue in Feed M	aterial, Feed Additive and Feed Products
NAL/INS/SOP/003:2022	Multiresidue method for the determination of pesticide residues using GC- and LC-based analysis following acetonitrile extraction/partitioning and clean- up in Food, feed and its products
NAL/INS/SOP/GC027	Determination of Ethylene Oxide (ETO) and 2-Chloro ethanol (ECH) in Food Products
B. Ayush, Herbal & its Proc Proximate Analysis in A	lucts yush, Herbal & its Products
API Volume – 6,2.2.2	Foreign Matter
API Volume – 6,2.2.3	Determination of Total Ash
API Volume – 6, 2.2.4	Determination of Acid Insoluble Ash
API Volume – 6, 2.2.9	Determination of Ether Soluble Extractive (Fixed Oil Content)
API Volume – 6,2.2.10	Determination of Moisture Content (Loss on Drying)
API Volume – 6.2.2.18	Test for Argemone Oil (Mustard Oil)





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IS 1656: 2022	Milk-Cereal Based Complementary Foods – specification
IS 1797:1985	Method for testing spices and condiments
IS 7219: 1973	Method for determination of protein in foods and feeds
Metals in Ayush, Herbal & its	s Products
AOAC 2013.06(As, Cd, Pb, Hg)	Heavy Metals in Food Inductively by Coupled Plasma–Mass Spectrometry
NAL/INS/SOP/ICPMS008 (Al, Sn, Ni, Se, Cr)	Determination of heavy Metals in Food & Food products
NAL/INS/SOP/ICPMS011	Determination of Methyl-Mercury in Food and Food Products
Toxins in Ayush, Herbal & it	s Products
ISO 22283:2020	Determination of aflatoxins in natural products by LC-FLD
Pesticide residues in Ayush	, Herbal & its Products
NAL/INS/SOP/003:2022	Multiresidue method for the determination of pesticide residues using GC- and LC-based analysis following acetonitrile extraction/partitioning and clean- up in Food, feed and its products
NAL/INS/SOP/GC027	Determination of Ethylene Oxide (ETO) and 2-Chloro ethanol (ECH) in Food Products
C. Cereals, Pulses & its pro Naturally Occurring Toxi	ducts ns in Cereals, Pulses & its products
IS 4333: Part-5: 1970	Methods of analysis for food grains: Part 5 Determination of uric acid
NAL/INS/SOP/LC005	Analysis of Agaric acid in food and agriculture products by HPLC-PDA
NAL/INS/SOP/LC006	Determination of Hypericine and Saffrole in food and agriculture products by HPLC-PDA
NAL/INS/SOP/LC010	Determination of uric acid in cereals based complimentary foods BY HPLC-PDA
NAL/INS/SOP/LC016	Determination of amino acids by HPLC-FLD
Toxins in Cereals, Pulses &	its Products
EN 16858:2017	Determination of melamine and cyanuric acid in foodstuffs by liquid chromatography and tandem mass spectrometry (LC-MS/MS)
EN 17280:2019	Determination of zearalenone and trichothecenes including deoxynivalenol and its acetylated derivatives (3-acetyl-deoxynivalenol and 15-acetyl- deoxynivalenol), nivalenol T-2 toxin and HT-2 toxin in cereals and cereal products by LC-MS/MS
ISO 15141:2018	Determination of ochratoxin A in Cereals and cereal products
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ISO 16050:2003	Determination of aflatoxin B1, and the total content of aflatoxins B1, B2, G1 and G2 in cereals, nuts and derived products
Metals & Minerals in Cereals	, Pulses & its Poducts
AOAC 2013.06 (As, Cd, Pb, Hg)	Heavy Metals in Food Inductively Coupled Plasma–Mass Spectrometry
NAL/INS/SOP/ICPMS008 (Ni, Se, Cr)	Determination of heavy Metals in Food & Food products
NAL/INS/SOP/ICPMS009	Determination of Inorganic arsenic in food & its products
NAL/INS/SOP/ICPMS011	Determination of Methyl-Mercury in Food and Food Products
Pesticides Residues in Cere	als, Pulses & its Products
NAL/INS/SOP/003: 2022	Multiresidue method for the determination of pesticide residues using GC- and LC-based analysis following acetonitrile extraction/partitioning and clean- up in Food, feed and its products
D. Marine, Aqua, Fish & its Metals in Marine, Aqua, I	
AOAC 2015.01(As, Cd, Pb, Hg)	Heavy Metals in Food Inductively Coupled Plasma–Mass Spectrometry
NAL/INS/SOP/ICPMS008(Sb, Fe, Ni, Se, Cr)	Determination of heavy Metals in Food & Food products
NAL/INS/SOP/ICPMS009	Determination of Inorganic arsenic in food & its products
NAL/INS/SOP/ICPMS011	Determination of Methyl-Mercury in Food and Food Products
Toxins in Marine, Aqua, Fish	& its Products
NAL/INS/SOP/LC001	Analysis of Aflatoxin in G2, G1, B2 & B1 In food and agriculture, Fish & Marine & Other Products
NAL/INS/SOP/LC017	Analysis of Histamine in fish and fish products by HPLC-PDA
Environmental Pollutant in M	larine, Aqua, Fish & its Products
NAL/INS/SOP/GC026A	Methods of analysis - Determination of dioxins and dioxin-like PCBs and Non dioxin like PCBs by GC-MS/MS in Marine, Aqua, Fish & its products
Pesticides Residues in Mari	ne, Aqua, Fish & its Products
NAL/INS/SOP/003: 2022	Multiresidue method for the determination of pesticide residues using GC- and LC-based analysis following acetonitrile extraction/partitioning and clean up in Food, feed and its products
Antibiotic Residue in Marine	, Aqua, Fish & its Products
NAL/INS/SOP/LCMS001	Determination of antibiotic residue in food, feed and its products
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Pertiuoroalkyl Substances i	n Marine, Aqua, Fish & its Products
NAL/INS/SOP/LCMS006	Perfluoroalkyl substances in Marine, Aqua, Fish & its products
E. Fruits, Vegetables & its Metals in Fruits, Vegetal	Products ble and its Products Including Guar Gum
AOAC 2013.06(As, Cd, Pb, Hg)	Heavy Metals in Food Inductively Coupled Plasma–Mass Spectrometry
NAL/INS/SOP/ICPMS008(Ni, Se, Cr)	Determination of heavy Metals in Food & Food products
NAL/INS/SOP/ICPMS011	Determination of Methyl-Mercury in Food and Food Products
Environmental Pollutant in F	Fruits, Vegetable and its Products Including Guar Gum
NAL/INS/SOP/GC026C	Methods of analysis - Determination of dioxins and dioxin-like PCBs and Non dioxin like PCBs by GC-MS/MS in Animal feed and foods
Pesticides Residues in Fruit	s, Vegetable and its Products Including Guar Gum
NAL/INS/SOP/003: 2022	Multiresidue method for the determination of pesticide residues using GC- and LC-based analysis following acetonitrile extraction/partitioning and clean up in Food, feed and its products
NAL/INS/SOP/GC027	Determination of Ethylene Oxide (ETO) and 2-Chloro ethanol (ECH) in Food Products
F. Herbs, Spices, Condime Proximate & Physical Ar	nts & its Products nalysis in Herbs, Spices, Condiments & its Products
AOAC 21St Edn – 915.03	Hydrocyanic acid by Titrimetric methods
AOAC 21St Edn 2019 – 990.28	Sulfites in Foods, Optimized Monier-Williams Method
ASTA 2.0	Determination of Moisture (Distillation Method)
ASTA 3.0	Determination of total ash
ASTA 4.0	Determination of Acid Insoluble Ash
ASTA 5.2	Determination of Steam Volatile Oil in Spices
ASTA 7.0	Determination of Crude Fibre – Determination of Extraneous Matter in Spices (Excluding Pepper)
IS 1797: 2017	Spices and Condiments - Methods of Test (Third Revision)
IS 2323: 2011	Spices And Condiments — Mustard, Whole And Ground - Specification
IS 4811: 2014	Cinnamon Whole - Specification





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IS 7219: 1973	Method for determination of protein in foods and feeds
IS 13446: 2009	Spices and Condiments - Large Cardamom - Capsules and Seeds
Manual of methods of Analysis of Foods (as per FSSAI) 3 – 17.5	Test for presence of Peroxidase
Toxin in Herbs, Spices, Con	diments & its Products
EN 16858:2017	Determination of melamine and cyanuric acid in foodstuffs by liquid chromatography and tandem mass spectrometry (LC-MS/MS)
EN 17424:2020	Determination of aflatoxins in spices other than paprika by IAC clean-up and HPLC-FLD with post-column derivatization
Metals in Herbs, Spices, Cor	ndiments & its Products and Oleoresins
AOAC 2013.06 (As, Cd, Pb, Hg)	Heavy Metals in Food Inductively Coupled Plasma–Mass Spectrometry
NAL/INS/SOP/ICPMS008 (Ni, Sb, Cr)	Determination of heavy Metals in Food & Food products
NAL/INS/SOP/ICPMS011	Determination of Methyl-Mercury in Food and Food Products
Banned and Illegal Dyes in H	lerbs, Spices, Condiments & its Products and Oleoresins
NAL/INS/SOP/LC009	Analysis of Synthetic colours by HPLC
NAL/INS/SOP/LCMS004	Extraction and analysis of Sudan I, II, III & IV in spices products by LC MS/MS
Pesticides Residues in Herb	s, Spices, Condiments & its Products and Oleoresin
NAL/INS/SOP/003: 2022	Multiresidue method for the determination of pesticide residues using GC- and LC-based analysis following acetonitrile extraction/partitioning and clean- up in Food, feed and its products
NAL/INS/SOP/GC027	Determination of Ethylene Oxide (ETO) and 2-Chloro ethanol (ECH) in Food Products
G. Essential Oil & Related F Metals in Essential Oils	
AOAC 2013.06 (As, Cd, Pb, Hg)	Heavy Metals in Food Inductively Coupled Plasma–Mass Spectrometry
NAL/INS/SOP/ICPMS008 (Ni, Cr)	Determination of heavy Metals in Food & Food products
NAL/INS/SOP/ICPMS011	Determination of Methyl-Mercury in Food and Food Products
Poly Aromatic Hydrocarbon	in Essential Oils & Related Products
NAL/NS/SOP/GC029	Determination of PAH by GC MS in food commodities
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NAL/INS/SOP/003: 2022	Multiresidue method for the determination of pesticide residues using GC-
	and LC-based analysis following acetonitrile extraction/partitioning and clean up in Food, feed and its products
NAL/INS/SOP/GC027	Determination of Ethylene Oxide (ETO) and 2-Chloro ethanol (ECH) in Food Products
H. Oil Seeds & its Products Metals in Oil Seeds & its	Products
AOAC 2013.06(As, Cd, Pb, Hg)	Heavy Metals in Food Inductively Coupled Plasma–Mass Spectrometry
NAL/INS/SOP/ICPMS008 (Ni, Cr)	Determination of heavy Metals in Food & Food products
NAL/INS/SOP/ICPMS011	Determination of Methyl-Mercury in Food and Food Products
Toxin in Oil Seeds & its Proc	lucts
EN 16858:2017	Determination of melamine and cyanuric acid in foodstuffs by liquid chromatography and tandem mass spectrometry (LC-MS/MS)
NAL/INS/SOP/LC001	Analysis Of Aflatoxin In G2, G1, B2 & B1 In Food And Agriculture, Fish & Marine & Other Products
Pesticides in Oil Seeds & its	Products
NAL/INS/SOP/003: 2022	Multiresidue method for the determination of pesticide residues using GC- and LC-based analysis following acetonitrile extraction/partitioning and clean up in Food, feed and its products
NAL/INS/SOP/GC027	Determination of Ethylene Oxide (ETO) and 2-Chloro ethanol (ECH) in Food Products
Tea, Coffee & its Products Proximate Analysis in Tea	
AOAC 21St Edn – 915.03	Hydrocyanic acid by Titrimetric methods
Dart Book – Test 44-page No.33 03.05	Detection of Iron Fillings in tea leaves
IS 13853: 1994	Tea - Determination of loss in mass at 103 degrees Celsius
IS 13854:1994	Tea - Determination of total ash
IS 13855: 1993	Tea - Determination of water-soluble ash and water-insoluble ash
IS 13856: 1993	Tea - Determination of alkalinity of water-soluble ash
IS 13857: 1993	Tea - Determination of acid-insoluble ash
IS 13862: 1999	Tea - Determination of Water Extract





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IS 16027: 2012	Tea and Instant Tea in Solid form— Determination of Caffeine Content — Method Using High — Performance Liquid Chromatography
IS 16041: 2012	Tea — Determination of Crude Fibre Content
ISO 10727:2002	Tea and instant tea in solid form — Determination of caffeine content — Method using high-performance liquid chromatography
Proximate Analysis in Coffe	e
Dart Book – 41-page No.31 03.05	Detection of Clay in coffee powder
Dart Book – 42-page No.31 03.05	Detection of Chicory Powder in coffee powder
FSSAI Manual. Food Additives (4.0) Page No. 81.0	Food colours -Added Colour
IS 2791: 2022	Soluble Coffee Powder - Specification
IS 3077: 2022	Roasted And Ground Coffee - Specification
IS 16028: 2012	Coffee And Coffee Products — Determination Of The Caffeine Content Using High Performance Liquid Chromatography (HPLC) — Reference Method
ISO 24081 :2021	Ground cassava leaves (Isombe)
Manual of methods of Analysis of Foods (as per FSSAI) 2 – 38	Rancid
Proximate Analysis in Coffe	e – Chicory Mixture
FSSAI Manual. Food Additives (4.0) Page No. 81.0	Added Colour
IS 3077: 2022	Roasted And Ground Coffee - Specification
NAL/CHL/SOP/F001	Procedure for visual examination in food and agriculture, Fish & Marine & Other products
Instant Coffee – Chicory Mix	iture
FSSAI Manual. Food Additives (4.0) Page No. 81.0	Added Colour
IS 2791: 2022	Soluble Coffee Powder - Specification
IS 3077: 2022	Roasted And Ground Coffee – Specification
NAL/CHL/SOP/F001	Procedure for visual examination in food and agriculture, Fish & Marine & Other products
Proximate Analysis in Greer	n Tea





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AOAC 21st Edn - 990.28	Sulfites in Foods, Optimized Monier-Williams Method
FSSAI Manual. Food Additives (4.0) Page No. 81.0	Added Colour
IS 13853: 1994	Tea - Determination of loss in mass at 103 degrees Celsius
IS 13854: 1994	Tea - Determination of total ash
IS 13855: 1993	Tea - Determination of water-soluble ash and water-insoluble ash
IS 13856: 1993	Tea - Determination of alkalinity of water-soluble ash
IS 13857: 1993	Tea - Determination of acid-insoluble ash
IS 13862: 1994	Tea - Determination of Water Extract
IS 16041: 2012	Tea — Determination of Crude Fibre Content
NAL/CHL/SOP/F013	Determination of Total catechin and polyphenol in green tea
Metal in Tea, Coffee & its Pro	oducts
AOAC 2013.06 (As, Cd, Pb, Hg)	Heavy Metals in Food Inductively Coupled Plasma–Mass Spectrometry
NAL/INS/SOP/ICPMS008 (Ni, Se, Cr, Fe)	Determination of heavy Metals in Food & Food products
NAL/INS/SOP/ICPMS011	Determination of Methyl-Mercury in Food and Food Products
Toxins in Tea, Coffee & its P	roducts
NAL/INS/SOP/LC001	Analysis Of Aflatoxin In G2, G1, B2 & B1 In Food And Agriculture, Fish & Marine & Other Products
Pesticides in Tea, Coffee & i	ts Products
NAL/INS/SOP/003: 2022	Multiresidue method for the determination of pesticide residues using GC- and LC-based analysis following acetonitrile extraction/partitioning and clean- up in Food, feed and its products
NAL/INS/SOP/GC027	Determination of Ethylene Oxide (ETO) and 2-Chloro ethanol (ECH) in Food Products
Pesticide Residues in Cottor	n and Textile
NAL/NS/SOP/00	1,4,6-Trichlorophenol 1-Naphthaleneacetamide 1-Naphthol 2,3,5,6-Tetrachlorophenol 2,4,5-Trichlorophenoxyacetic acid (2,4,5-T) 2,4-D 2-Phenylphenol 3-OH carbofuran
	2-Phenylphenol





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NAL/NS/SOP/00	4-Chloro-3-methylphenol
(cont'd.)	4-CPA (4-Chlorophenoxy acetic acid)
(cont al)	5-Hydroxythiabendazole
	6-Benzyl adenine
	Abamectin
	Acephate
	Acetamiprid
	Acetochlor
	Afidopyropen
	Alachlor
	Aldicarb
	Aldicarb sulfone
	Aldicarb sulfoxide
	Aldrand Sulloxide
	Allethrin
	Alpha- and beta-Endosulfan
	Ametoctradin
	Ametryn
	Amisulbrom
	Anilofos
	Atrazine
	Azadirachtin
	Azimsulfuron
	Azinphos
	Azinphos methyl
	Azoxystrobin
	Benalaxyl
	Benalaxyl-M
	Bendiocarb
	Benfuracarb
	Benomyl (see carbendazim)
	Bensulfuron-methyl
	Bifenazate
	Bifenazate diazene
	Bifenthrin
	Bioallethrin
	Bioresmethrin
	Bispyribac
	Bitertanol
	Boscalid
	Bromacil
	Bromophos-ethyl
	Bupirimate
	Buprofezin
	Butachlor
	Captafol
	Captan
	Carbaryl
	Carbendazim
	Carbofuran
	Carbosulfan



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NAL/NS/SOP/00	Carboxin sulfoxide
(cont'd.)	Carfentrazone-ethyl
(cont d.)	Carpropamid
	Cartap hydrochloride
	Chlorantraniliprole
	Chlordane (cis & trans)
	Chlordimeform
	Chlorfenapyr
	Chlorfenvinphos
	Chlorfluazuron
	Chlorimuron-ethyl
	Chlormequat (CCC)
	Chlorothalonil
	Chlorpropham
	Chlorpyrifos
	Chlorpyrifos-methyl
	Chromafenozide
	Cinmethylene
	Clethodim
	Clofentezine
	Clomazone
	Clopyralid
	Clothianidin
	Coumachlor
	Coumaphos
	Coumatetralyl
	Cyantraniliprole
	Cyazofamid
	Cyclanilide
	Cycloate
	Cyenopyrofen
	Cyflufenamid (Z,E-isomer)
	Cyflumetofen
	Cyfluthrin (including other mixtures of constituent isomers sum of isomers)
	Cyhalofop-butyl
	Cyhalothrin (Gamma)
	Cyhalothrin (lambda)
	Cylluthrin
	Cymoxanil
	Cypermethrin (including other mixtures of constituent isomers, sum of
	isomers)
	Cyproconazole
	Cyprodinil
	Cyromazine
	Dazomet
	Dazomet-metam
	DDT (all isomers, sum of p,p´-DDT, o,p´-DDT, p,p´-DDE and p,p´-TDE (DDI
	expressed as DDT)
	DEF (Tribufos)
	Deltamethrin
	Demeton-S-methylsulfone



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NAL/NS/SOP/00	Diafenthiuron
(conťd.)	Diazinon
(	Dichlofenthion
	Dichlorprop
	Dichlorvos
	Diclofop
	Diclofop-methyl
	Dicloran
	Diclosulam
	Dicofol (sum of p,p´ and o,p´ isomers)
	Dicrotophos
	Dieldrin (see Aldrin)
	Difenoconazole
	Diflubenzuron
	Dimethoate
	Dimethomorph (sum of isomers)
	Dinocap
	Dinoseb and salts
	Dinotefuran
	Diphenamid
	Diphenyiamine
	Diquat
	Disulfoton
	Disulfoton sulfone
	Dithianon
	Dithiocarbamates (dithiocarbamates expressed as CS2, including maneb,
	mancozeb, metiram, thiram and ziram)
	Diuron
	Dodine
	Edifenphos
	Emamectin benzoate B1a, expressed as emamectin
	Empenthrin
	Endosulphan (All isomers, sum of <i>alpha</i> - and <i>beta</i> -isomers and endosulpha
	sulphate expressed as endosulphan)
	Endrin
	Epoxiconazole
	Esfenvalerate
	Ethephon
	Ethion
	Ethiprole
	Ethofenprox (Etofenprox)
	Ethoprop
	Ethoxyquin
	Ethoxysulfuron
	Etoxazole
	Etrimfos
	Famoxadone
	Fenamidone
	Fenamiphos
	Fenamiphos sulfone
	Fenamiphos sulfoxide
	Fenarimol



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NAL/NS/SOP/00	Fenazaquin
(cont'd.)	Fenbuconazole
	Fenchlorphos
	Fenhexamid
	Fenitrothion
	Fenobucarb
	Fenoxaprop-p
	Fenpropathrin
	Fenpyroximate
	Fenthion
	Fenthion sulfone
	Fenthion sulfoxides
	Fentilion suitoxides
	Fipronil
	Fipronil sulfone
	Flonicamid
	Fluazifop-P
	Flubendiamide
	Flucetosulfuron
	Fluchloralin
	Fludioxonil
	Fluensulfone
	Flufenacet
	Flufenoxuron
	Flufenzin
	Flumethrin
	Flumioxazine
	Fluopicolide
	Fluopyram
	Fluoxastrobin
	Flupyradifurone
	Fluridone
	Flusilazole
	Fluthiacet-methyl
	Flutolanil
	Fluxapyroxad
	Folpet
	Fomesafen
	Fonofos
	Forchlorfenuron
	Formetanate hydrochloride
	Fosetyl-Al
	Furathiocarb
	Glufosinate-ammonium
	Glyphosate
	Halosulfuron methyl
	Haloxyfop R
	HCH-Alpha
	HCH-Beta
	HCH-delta
	Heptachlor
	Heptachlor



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NAL/NS/SOP/00	Heptachlor epoxide
(cont'd.)	Heptachlor exoepoxide
()	Hexachlorobenzene (HCB)
	Hexaconazole
	Hexazinone
	Hexythiazox
	Homobrassinolide
	Hydroprene
	Imazalil
	Imazamox
	Imazethapyr
	Imidacloprid
	Imidactoprid
	Indaziflam
	Indoxacarb
	lodosulfuron-methyl
	Iprobenphos
	Iprodione
	İprovalicarb
	İsoprothiolane
	Isoproturon
	Kasugamycin
	Kresoxim methyl
	Lindane (HCH-gamma)
	Linuron
	Lufenuron
	Lufenuron (any ratio of constituent isomers)
	Malaoxon
	Malathion
	Mandipropamid
	Matrine
	MCPA
	МСРВ
	Месоргор
	Mepiquat
	Meptyldinocap
	Metaflumizone (sum of E- and Z- isomers)
	Metalaxyl
	Metalaxyl-M
	Metamifop
	Metamitron
	Methabenzthiazuron
	Methamidophos
	Methidathion
	Methiocarb
	Methomyl
	Methoxychlor
	Methoxyfenazide
	Metolachlor
	Metolachlor-S
	Metrafenone
	Metribuzin



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NAL/NS/SOP/00	Mevinphos
(cont'd.)	MGK-264
(00111 01)	Milbemectin A3
	Milbemectin A4
	Mirex
	Monocrotophos
	MPP
	Myclobutanil
	NAG
	Naled
	Napropamide
	Nereistoxin
	Nitenpyram
	Nonachlor cis
	Nonachlor trans
	Norflurazon
	Norflurazon desmethyl
	Novaluron
	Omethoate
	Orthosulfamuron
	Oxadiargyl
	Oxadiazon
	Oxadixyl
	Oxamyl
	Oxamyl oxime
	Oxathiapiprolin
	Oxycarboxin (carboxin sulfone)
	Oxydemeton- methyl
	Oxydemeton methyl sulfone
	Oxyfluorfen
	Oxymatrine
	Paclobutrazol
	Paraoxon ethyl
	Paraoxon methyl
	Paraquat
	Parathion ethyl
	Parathion methyl
	PCP/ Pentachlorophenol
	Penconazole
	Pencycuron
	Pencycuron-PB-amine
	Pendimethalin
	Penoxsulam
	Pentachloroaniline (PCA)
	Pentachlorobenzene (PCB)
	Pentachlorophenyl methyl sulfide
	Permethrin (sum of isomers)
	Perthane
	Phenmedipham
	Phenthoate
	Phorate
	Phorate sulphone



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NAL/NS/SOP/00	Phorate sulphoxide
(cont'd.)	Phosalone
(,	Phosmet
	Phosphamidon
	Phosphorous acid
	Phoxim/Baythion
	Picoxystrobin
	Pinoxaden
	Piperonyl Butoxide
	Pirimicarb
	Pirimiphos-ethyl
	Pirimiphos-methyl
	Prallethrin
	Pretilachlor
	Prochloraz
	Procymidone
	Profenophos
	Prometryn
	Pronamide
	Propamocarb
	Propanil
	Propargite
	Propetamphos
	Propiconazole
	Propineb
	Propoxur
	Pymetrozine
	Pyraclostrobin
	Pyrazosulfuron-ethyl
	Pyrethrum
	Pyridaben
	Pyridalyl
	Pyrimethanil
	Pyriproxyfen
	Pyrithiobac-sodium
	Pyroxasulfone
	Quinalphos
	Quinoxyfen
	Quintozene (PCNB)
	Resmethrin
	Sethoxydim
	Simazine
	Spinetoram
	Spinosad (sum of Spinosyn A+D)
	Spirodiclofen
	Spiromesifen
	Spirotetramat
	Spirotetramat - enol- glucoside
	Spirotetramat -enol
	Spirotetramat- ketohydroxy
	Spirotetramat -monohydroxy
	Strobane



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NAL/NS/SOP/00	Sulfentrazone
	Sulfosulfuron
(cont'd.)	Sulfoxaflor
	Tau-fluvalinate
	Tebuconazole
	Tebufenozide
	Teflubenzuron
	Telodrin
	Tembotrione
	Tembotrione-Dihydroxy(4,6-dihydroxy)
	Temphos
	Tetrachlorvinphos Tetraconazole
	Tetradifon
	Tetrahydrophthalimide (THPI)
	Thiabendazole
	Thiacloprid
	Thiamethoxam
	Thidiazuron
	Thifluzamide
	Thiobencarb (4-chlorobenzyl methyl sulfone)
	Thiocyclam
	Thiodicarb
	Thiometon
	Thiophanate-methyl
	TNFA
	TNFG
	Toldofos-methyl
	Tolfenpyrad
	Topramezone
	Toxaphene
	Transfluthrin
	Triadimefon
	Triadimenol
	Triafamone
	Tri-allate
	Triasulfuron
	Triazophos
	Trichlorfon
	Tricyclazole
	Tridemorph
	Triffoxysulturon-eodium
	Trifloxystrobin
	Triflumezopyrim
	Triflumizole
	Triflumuron
	Trifluralin
	Uracil Vinclozolin

#### Biological Testing/ Molecular Biological Analysis / Cotton and Textiles





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ISO IWA 32:2019 Screening of GMOs in Cotton and Textiles	
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