



INTERNATIONAL
ACCREDITATION
SERVICE®

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 August 19, 2024



International Accreditation Service
Issued under the authority of IAS management

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SCOPE OF ACCREDITATION

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NAWAL ANALYTICAL LABORATORIES

www.nawallab.com

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Accredited to ISO/IEC 17025:2017

Effective Date August 19, 2024

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 <i>Salmonella</i> 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
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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 <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 <i>Vibrio</i> spp. — Part 1: Detection of potentially enteropathogenic <i>Vibrio parahaemolyticus</i> , <i>Vibrio cholerae</i> and <i>Vibrio vulnificus</i>

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Microbiological Analysis in Ayush, Herbal & its Products	
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
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ISO 21872: Part-1:2017	- Microbiology of the food chain — Horizontal method for the determination of <i>Vibrio</i> spp. — Part 1: Detection of potentially enteropathogenic <i>Vibrio parahaemolyticus</i> , <i>Vibrio cholerae</i> and <i>Vibrio vulnificus</i>
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



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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 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 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 Marine, Aqua, Fish & its Products	
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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



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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 <i>Escherichia coli</i> — Part 2: Colony-count technique at 44 degrees C using 5-bromo-4-chloro-3-indolyl beta-D-glucuronide
ISO 21527-1	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 <i>Vibrio</i> spp. — Part 1: Detection of potentially enteropathogenic <i>Vibrio parahaemolyticus</i> , <i>Vibrio cholerae</i> and <i>Vibrio vulnificus</i>
Microbiological Analysis in Fruits, Vegetable & its Products Including Guar Gum	
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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

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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
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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 in 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
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ISO 21872: Part-1:2017	Microbiology of the food chain — Horizontal method for the determination of <i>Vibrio</i> spp. — Part 1: Detection of potentially enteropathogenic <i>Vibrio parahaemolyticus</i> , <i>Vibrio cholerae</i> and <i>Vibrio vulnificus</i>
Microbiological Analysis in Oil Seeds & its Products	

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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
Microbiological Analysis in 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
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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	
A. Animal Feed Products (Feed Material, Feed Additive & Feed Products) Proximate & Physical Analysis 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



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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
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, Feed 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 Feed 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 Material, 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 Material, 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

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NAL/INS/SOP/GC027	Determination of Ethylene Oxide (ETO) and 2-Chloro ethanol (ECH) in Food Products
B. Ayush, Herbal & its Products Proximate Analysis in Ayush, 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)
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 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 & its 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 products Naturally Occurring Toxins 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

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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
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 Products	
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 Cereals, 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 Products	
Metals in Marine, Aqua, Fish & its Products	
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



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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 Marine, 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 Marine, 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
Perfluoroalkyl Substances in Marine, Aqua, Fish & its Products	
NAL/INS/SOP/LCMS006	Perfluoroalkyl substances in Marine, Aqua, Fish & its products
E. Fruits, Vegetables & its Products	
Metals in Fruits, Vegetable 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 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 Fruits, 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, Condiments & its Products	
Proximate & Physical Analysis in Herbs, Spices, Condiments & its Products	



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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
IS 5955: 1993	Spices and Condiments - Tamarind Concentrate
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, Condiments & 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, Condiments & 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 Herbs, Spices, Condiments & its Products and Oleoresins	
NAL/INS/SOP/LC009	Analysis of Synthetic colours by HPLC



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NAL/INS/SOP/LCMS004	Extraction and analysis of Sudan I, II, III & IV in spices products by LC MS/MS
Pesticides Residues in Herbs, 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 Products	
Metals in Essential Oils & Related 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
Poly Aromatic Hydrocarbon in Essential Oils & Related Products	
NAL/INS/SOP/GC029	Determination of PAH by GC MS in food commodities
Pesticides in Essential Oils & Related 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
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 Products	
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



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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
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 Coffee	
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



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ISO 24081 :2021	Ground cassava leaves (Isombe)
Manual of methods of Analysis of Foods (as per FSSAI) 2 – 38	Rancid
Proximate Analysis in Coffee – 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 Mixture	
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 Green Tea	
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 Products	
AOAC 2013.06 (As, Cd, Pb, Hg)	Heavy Metals in Food Inductively Coupled Plasma–Mass Spectrometry



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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 Products	
NAL/INS/SOP/LC001	Analysis Of Aflatoxin In G2, G1, B2 & B1 In Food And Agriculture, Fish & Marine & Other Products
Pesticides in Tea, Coffee & 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
Pesticide Residues in Cotton 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 4-Bromo-2-chlorophenol (metabolite of Profenophos)
NAL/NS/SOP/00 (cont'd.)	4-Chloro-3-methylphenol 4-CPA (4-Chlorophenoxy acetic acid) 5-Hydroxythiabendazole 6-Benzyl adenine Abamectin Acephate Acetamiprid Acetochlor Afidopyropen Alachlor Aldicarb Aldicarb sulfone Aldicarb sulfoxide Aldrin Allethrin Alpha- and beta-Endosulfan Ametoctradin Ametryn Amisulbrom Anilofos Atrazine Azadirachtin



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NAL/NS/SOP/00 (cont'd.)	Azimsulfuron Azinphos Azinphos methyl Azoxytobin 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 Carboxin Carboxin sulfoxide Carfentrazone-ethyl Carpropamid Cartap hydrochloride Chlorantraniliprole Chlordane (cis & trans) Chlordimeform Chlorfenapyr Chlorfenvinphos Chlorfluazuron Chlorimuron-ethyl Chlormequat (CCC) Chlorothalonil Chlorpropham Chlorpyrifos Chlorpyrifos-methyl Chromafenozide Cinmethylen Clethodim Clofentezine Clomazone
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<p>NAL/NS/SOP/00 (cont'd.)</p>	<p>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 DCPA DDT (all isomers, sum of p,p'-DDT, o,p'-DDT, p,p'-DDE and p,p'-TDE (DDD) expressed as DDT) DEF (Tribufos) Deltamethrin Demeton-S-methylsulfone Diafenthiuron 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</p>
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NAL/NS/SOP/00 (cont'd.)	Diphenylamine Diquat Disulfoton Disulfoton sulfone Dithianon Dithiocarbamates (dithiocarbamates expressed as CS ₂ , 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 endosulphan sulphate expressed as endosulphan) Endrin Epoiconazole Esfenvalerate Ethephon Ethion Ethiprole Ethofenprox (Etofenprox) Ethoprop Ethoxyquin Ethoxysulfuron Etoxazole Etrifos Famoxadone Fenamidone Fenamiphos Fenamiphos sulfone Fenamiphos sulfoxide Fenarimol Fenazaquin Fenbuconazole Fenchlorphos Fenhexamid Fenitrothion Fenobucarb Fenoxaprop-p Fenpropathrin Fenpyroximate Fenthion Fenthion sulfone Fenthion sulfoxides Fenvalerate Fipronil Fipronil sulfone Flonicamid Fluazifop-P Flubendiamide Flucetosulfuron
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NAL/NS/SOP/00 (cont'd.)	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 Haloxypop R HCH-Alpha HCH-Beta HCH-delta Heptachlor Heptachlor Heptachlor epoxide Heptachlor exoepoxide Hexachlorobenzene (HCB) Hexaconazole Hexazinone Hexythiazox Homobrassinolide Hydroprene Imazalil Imazamox Imazethapyr Imidacloprid Imidactoprid Indaziflam Indoxacarb Iodosulfuron-methyl Iprobenphos Iprodione
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NAL/NS/SOP/00 (cont'd.)	Iprovalicarb Isoprothiolane Isoproturon Kasugamycin Kresoxim methyl Lindane (HCH-gamma) Linuron Lufenuron Lufenuron (any ratio of constituent isomers) Malaoxon Malathion Mandipropamid Matrine MCPA MCPB Mecoprop 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 Mevinphos MGK-264 Milbemectin A3 Milbemectin A4 Mirex Monocrotophos MPP Myclobutanil NAG Naled Napropamide Nereistoxin Nitenpyram Nonachlor cis Nonachlor trans Norflurazon Norflurazon desmethyl
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NAL/NS/SOP/00 (cont'd.)	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 Phorate sulphoxide Phosalone Phosmet Phosphamidon Phosphorous acid Phoxim/Baythion Picoxystrobin Pinoxaden Piperonyl Butoxide Pirimicarb Pirimiphos-ethyl Pirimiphos-methyl Prallethrin Pretilachlor Prochloraz Procymidone
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NAL/NS/SOP/00 (cont'd.)	Profenophos Prometryn Pronamide Propamocarb Propanil Propargite Propetamphos Propiconazole Propineb Propoxur Pymetrozine Pyraclostrobin Pyrazosulfuron-ethyl Pyrethrum Pyridaben Pyridalyl Pirimethanil Pyriproxyfen Pyriothiobac-sodium Pyroxasulfone Quinalphos Quinoxifen Quintozone (PCNB) Resmethrin Sethoxydim Simazine Spinetoram Spinosad (sum of Spinosyn A+D) Spirodiclofen Spiromesifen Spirotetramat Spirotetramat - enol- glucoside Spirotetramat -enol Spirotetramat- ketohydroxy Spirotetramat -monohydroxy Strobane Sulfentrazone Sulfosulfuron Sulfoxaflor Tau-fluvalinate Tebuconazole Tebufenozide Teflubenzuron Telodrin Tembotrione Tembotrione-Dihydroxy(4,6-dihydroxy) Temephos Tetrachlorvinphos Tetraconazole Tetradifon Tetrahydrophthalimide (THPI)
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	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 Trifloxysulfuron-eodium Trifloxystrobin Triflumezopyrim Triflumizole Triflumuron Trifluralin Uracil Vinclozolin
Biological Testing/ Molecular Biological Analysis / Cotton and Textiles	
ISO IWA 32:2019	Screening of GMOs in Cotton and Textiles

