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CERTIFICATE OF ACCREDITATION

This is to attest that

EUROFINS ANALYTICAL SERVICES INDIA PRIVATE LIMITED, BANGALORE

540/1, DODDANEKUNDI INDUSTRIAL AREA 2, GRAPHITE INDIA ROAD, HOODI, WHITEFIELD
BENGALURU, 560048, REPUBLIC OF INDIA

Testing Laboratory TL-1097

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 January 12, 2024



President

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EUROFINS ANALYTICAL SERVICES INDIA PRIVATE LIMITED, BANGALORE

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Accredited to ISO/IEC 17025:2017

Effective Date January 12, 2024

FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
Microbiological continued	Swab testing continued	Enterobacteriaceae	EASI-MB-SOP-15 Procedure for swab testing of Microbiology Lab
			ISO 21528-1 Horizontal method for the detection and enumeration of Enterobacteriaceae — Part 1: Detection of Enterobacteriaceae
		Escherichia coli	EASI-MB-SOP-15 Procedure for swab testing of Microbiology Lab
			IS 5887 (P-1) Methods for Detection of Bacteria Responsible for Food Poisoning - Part I : Isolation, Identification and Enumeration of Escherichia Coli
			ISO 16649-2:2001 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 16649-3 Microbiology of the food chain — Horizontal method for the enumeration of beta-glucuronidase-positive Escherichia coli — Part 3: Detection and most probable number technique using 5-

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
			bromo-4-chloro-3-indolyl-β-D-glucuronide
		Listeria monocytogenes	AOAC 2004.02 Listeria monocytogenes in foods VIDAS Listeria monocytogens II (LMO2)
			EASI-MB-SOP-15 Procedure for swab testing of Microbiology Lab
			IS 14988 (P-1) Microbiology of the Food Chain Horizontal Method for Detection and Enumeration of Listeria monocytogenes and of Listeria spp. Part 1 Detection Method
			ISO 11290-1 Microbiology of the Food Chain — Horizontal Method for the Detection and Enumeration of Listeria Monocytogenes and of Listeria Spp. — Part 1: Detection Method
		Salmonella	AOAC 2004.03 VIDAS Salmonella in Foods Enzyme-Linked fluorescent Assay (ELFA) Screening method
			AOAC 2013.01 Salmonella in a Variety of Foods VIDAS® UP Salmonella (SPT) Method Salmonella
			AOAC 996.08 VIDAS Salmonella in Foods Enzyme-Linked Immunofluorescent Assay Screening method (VIDAS Salmonella (SLM) Assay)
			EASI-MB-SOP-15 Procedure for swab testing of Microbiology Lab
			IS 5887 (P-3) Methods for Detection of Bacteria Responsible for Food Poisoning Part 3 Horizontal Method for the Detection, Enumeration and Serotyping of Salmonella Section 1 Detection of Salmonella spp.

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
			ISO 6579-1 Microbiology of the food chain — Horizontal method for the detection, enumeration and serotyping of Salmonella — Part 1: Detection of Salmonella spp.
		Shigella	EASI-MB-SOP-15 Procedure for swab testing of Microbiology Lab
			ISO 21567 Microbiology of food and animal feeding stuffs — Horizontal method for the detection of Shigella spp.
		Staphylococcus aureus	EASI-MB-SOP-15 Procedure for swab testing of Microbiology Lab
			ISO 6888-1 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
		Vibrio cholerae	EASI-MB-SOP-15 Procedure for swab testing of Microbiology Lab
			ISO 21872-1 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
		Vibrio parahaemolyticus	EASI-MB-SOP-15 Procedure for swab testing of Microbiology Lab
			ISO 21872-1 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
		Yeast and Mold	AOAC 2014.05 Enumeration of Yeast and Mold in Food 3M™

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
			Petrifilm™ Rapid Yeast and Mold Count plate
			IS 5403 Method for Yeast and Mould Count of Foodstuffs and animal feeds
			EASI-MB-SOP-15 Procedure for swab testing of Microbiology Lab
			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
	Tea	Aerobic Plate count	IS 5402 Microbiology of Food and Animal Feeding Stuffs — Horizontal Method for the Enumeration of Micro-Organisms — Colony-Count Technique at 30o C
			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
			US FDA BAM Chapter 3 Aerobic Plate Count
		Bacillus cereus	IS 5887 (P-6) Microbiology of Food and Animal Feeding Stuffs — Horizontal Method for the Enumeration of Presumptive Bacillus Cereus, Part 6 Colony-count Technique at 30o C
			ISO 7932 Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of presumptive Bacillus cereus — colony-count technique at 30 degrees c
			US FDA BAM Chapter 14 Bacillus cereus
		Clostridium perfringens	IS 5887 (P-4) Methods for Detection of Bacteria

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
			Responsible for Food Poisoning : Part 4 Isolation and Identification of Clostridium perfringens (clostridium Welchii) and clostridium botulinum and enumeration of clostridium perfringens
			ISO 7937 Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of Clostridium perfringens — Colony-count technique
		Coagulase positive Staphylococcus aureus	IS 5887 (P-2) Methods for detection of bacteria responsible for food poisoning: Part 2 Isolation, identification and enumeration of Staphylococcus aureus and faecal streptococci
			IS 5887 (P-8) Methods for Detection of Bacteria Responsible for Food Poisoning - Part 8 : Horizontal Method for Enumeration of Coagulase-Positive Staphylococci (Staphylococcus Aureus and other Species) - Sec 1 : Technique Using Baird-Parker Agar Medium
			ISO 6888-1 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
		Coliforms	IS 5401 (P-1) Microbiology of Food and Animal Feeding Stuffs - Horizontal Method for the Detection and Enumeration of Coliforms - Part 1 : Colony Count Technique
			ISO 4831 Microbiology of food and animal feeding stuffs — horizontal method for the

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
			detection and enumeration of coliforms — most probable number technique
			ISO 4832 Microbiology of food and animal feeding stuffs — horizontal method for the enumeration of coliforms — colony-count technique
			US FDA BAM Chapter 4 Enumeration of Escherichia coli and the Coliform Bacteria
		Enterobacteriaceae	IS 17112 (P-1) Microbiology of the Food Chain — Horizontal Method for the Detection and Enumeration of Enterobacteriaceae Part 1 Detection of Enterobacteriaceae
			IS 17112 (P-2) Microbiology of the Food Chain — Horizontal Method for the Detection and Enumeration of Enterobacteriaceae Part 2 Colony-Count Technique
			ISO 21528-1 Horizontal method for the detection and enumeration of Enterobacteriaceae — Part 1: Detection of Enterobacteriaceae
		Escherichia coli	IS 5887 (P-1) Methods for Detection of Bacteria Responsible for Food Poisoning - Part I : Isolation, Identification and Enumeration of Escherichia Coli
			ISO 16649-2:2001 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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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
			ISO 16649-3 Microbiology of the food chain — Horizontal method for the enumeration of beta-glucuronidase-positive Escherichia coli — Part 3: Detection and most probable number technique using 5-bromo-4-chloro-3-indolyl-β-D-glucuronide
			ISO 7251 Microbiology of food and animal feeding stuffs — Horizontal method for the detection and enumeration of presumptive Escherichia coli — Most probable number technique
			US FDA BAM Chapter 4 Enumeration of Escherichia coli and the Coliform Bacteria
		Lactic acid bacteria	CMMEF Chapter 19 Acid Producing Microorganisms
			IS 16068 Microbiology of Food and Animal Feeding Stuffs - Horizontal Method for the Enumeration of Mesophilic Lactic Acid Bacteria - Colony-Count Technique at 30 deg C
			ISO 15214 Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of mesophilic lactic acid bacteria — Colony- count technique at 30 degrees C
		Listeria monocytogenes	AOAC 2004.02 Listeria monocytogenes in foods VIDAS Listeria monocytogens II (LMO2)
			IS 14988 (P-1) Microbiology of the Food Chain Horizontal Method for Detection and Enumeration of Listeria monocytogenes and of Listeria spp. Part 1 Detection Method
			ISO 11290-1 Microbiology of the Food Chain — Horizontal Method for the Detection and Enumeration of Listeria

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			Monocytogenes and of Listeria Spp. — Part 1: Detection Method
			US FDA BAM Chapter 10 Detection of Listeria monocytogenes in Foods and Environmental Samples, and Enumeration of Listeria monocytogenes in Foods
		Osmophilic Yeast	CMMEF Chapter 17 Halophilic and Osmophilic Microorganisms
		Salmonella	AOAC 2004.03 VIDAS Salmonella in Foods Enzyme-Linked fluorescent Assay (ELFA) Screening method
			AOAC 2013.01 Salmonella in a Variety of Foods VIDAS® UP Salmonella (SPT) Method Salmonella
			AOAC 996.08 VIDAS Salmonella in Foods Enzyme-Linked Immunofluorescent Assay Screening method (VIDAS Salmonella (SLM) Assay)
			IS 5887 (P-3) Methods for Detection of Bacteria Responsible for Food Poisoning Part 3 Horizontal Method for the Detection, Enumeration and Serotyping of Salmonella Section 1 Detection of Salmonella spp.
			ISO 6579-1 Microbiology of the food chain — Horizontal method for the detection, enumeration and serotyping of Salmonella — Part 1: Detection of Salmonella spp.
			US FDA BAM Chapter 5 Salmonella
		Shigella	IS 5887 (P-7) Methods for Detection of Bacteria Responsible for Food Poisoning - Part 7 : General Guidance on

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
			Methods for Isolation and Identification of Shigella
			ISO 21567 Microbiology of food and animal feeding stuffs — Horizontal method for the detection of Shigella spp.
			US FDA BAM Chapter 6 Shigella
		Staphylococcus aureus	IS 5887 (P-2) Methods for detection of bacteria responsible for food poisoning: Part 2 Isolation, identification and enumeration of Staphylococcus aureus and faecal streptococci
			IS 5887 (P-8) Methods for Detection of Bacteria Responsible for Food Poisoning - Part 8 : Horizontal Method for Enumeration of Coagulase-Positive Staphylococci (Staphylococcus Aureus and other Species) - Sec 1 : Technique Using Baird-Parker Agar Medium
			ISO 6888-1 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
			US FDA BAM Chapter 12 Staphylococcus aureus
		Sulphite reducing bacteria	ISO 15213 Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of sulfite-reducing bacteria growing under anaerobic conditions
		Sulphite reducing Clostridia	ISO 15213 Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of sulfite-reducing bacteria growing under anaerobic conditions

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		Vibrio cholerae	IS 5887 (P-5) methods for detection of bacteria responsible for food poisoning :part 5 isolation, identification and enumeration of Vibrio cholerae and Vibrio parahaemolyticus
			ISO 21872-1 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
			US FDA BAM Chapter 9 Vibrio
		Vibrio parahaemolyticus	IS 5887 (P-5) methods for detection of bacteria responsible for food poisoning: part 5 isolation, identification and enumeration of Vibrio cholerae and Vibrio parahaemolyticus
			ISO 21872-1 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
			US FDA BAM Chapter 9 Vibrio
		Yeast and Mold	AOAC 2014.05 Enumeration of Yeast and Mold in Food 3M™ Petrifilm™ Rapid Yeast and Mold Count plate
			US FDA BAM Chapter 18 Yeasts, Molds and Mycotoxins
			IS 5403 Method for Yeast and Mould Count of Foodstuffs and animal feeds
			ISO 21527-1 Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of yeasts and moulds — Part 1: Colony count

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			technique in products with water activity greater than 0,95
	Vegetables & Vegetable Products	Aerobic Plate count	IS 5402 Microbiology of Food and Animal Feeding Stuffs — Horizontal Method for the Enumeration of Micro-Organisms — Colony-Count Technique at 30o C
			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
			US FDA BAM Chapter 3 Aerobic Plate Count
		Bacillus cereus	IS 5887 (P-6) Microbiology of Food and Animal Feeding Stuffs — Horizontal Method for the Enumeration of Presumptive Bacillus Cereus, Part 6 Colony-count Technique at 30o C
			ISO 7932 Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of presumptive Bacillus cereus — colony-count technique at 30 degrees c
			US FDA BAM Chapter 14 Bacillus cereus
		Clostridium perfringens	ISO 7937 Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of Clostridium perfringens — Colony-count technique
		Coagulase positive Staphylococcus aureus	IS 5887 (P-2) Methods for detection of bacteria responsible for food poisoning: Part 2 Isolation, identification and enumeration of Staphylococcus aureus and faecal streptococci
			IS 5887 (P-8) Methods for Detection of Bacteria Responsible fo Food

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
			Poisoning - Part 8 : Horizontal Method for Enumeration of Coagulase-Positive Staphylococci (Staphylococcus Aureus and other Species) - Sec 1 : Technique Using Baird-Parker Agar Medium
			ISO 6888-1 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
		Coliforms	IS 5401 (P-1) Microbiology of Food and Animal Feeding Stuffs - Horizontal Method for the Detection and Enumeration of Coliforms - Part 1 : Colony Count Technique
			ISO 4831 Microbiology of food and animal feeding stuffs — horizontal method for the detection and enumeration of coliforms — most probable number technique
			ISO 4832 Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of coliforms — Colony-count technique
			US FDA BAM Chapter 4 Enumeration of Escherichia coli and the Coliform Bacteria
		Enterobacteriaceae	IS 17112 (P-1) Microbiology of the Food Chain — Horizontal Method for the Detection and Enumeration of Enterobacteriaceae Part 1 Detection of Enterobacteriaceae
			IS 17112 (P-2) Microbiology of the Food Chain — Horizontal Method for the Detection and Enumeration of

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			Enterobacteriaceae Part 2 Colony-Count Technique
			ISO 21528-1 Horizontal method for the detection and enumeration of Enterobacteriaceae — Part 1: Detection of Enterobacteriaceae
		Escherichia coli	IS 5887 (P-1) Methods for Detection of Bacteria Responsible for Food Poisoning - Part I : Isolation, Identification and Enumeration of Escherichia Coli
			ISO 16649-2:2001 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 16649-3 Microbiology of the food chain — Horizontal method for the enumeration of beta-glucuronidase-positive Escherichia coli — Part 3: Detection and most probable number technique using 5-bromo-4-chloro-3-indolyl-β-D-glucuronide
			US FDA BAM Chapter 4 Enumeration of Escherichia coli and the Coliform Bacteria
		Escherichia coli O157 H7	IS 14397 Detecton, isolation and identification of pathogenic E. coli in food
		Lactic acid bacteria	CMMEF Chapter 19 Acid Producing Microorganisms
			IS 16068 Microbiology of Food and Animal Feeding Stuffs - Horizontal Method for the Enumeration of Mesophilic Lactic Acid Bacteria - Colony-Count Technique at 30 deg C

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			ISO 15214 Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of mesophilic lactic acid bacteria — Colony- count technique at 30 degrees C
		Listeria monocytogenes	AOAC 2004.02 Listeria monocytogenes in foods VIDAS Listeria monocytogenes II (LMO2)
			IS 14988 (P-1) Microbiology of the Food Chain Horizontal Method for Detection and Enumeration of Listeria monocytogenes and of Listeria spp. Part 1 Detection Method
			ISO 11290-1 Microbiology of the Food Chain — Horizontal Method for the Detection and Enumeration of Listeria Monocytogenes and of Listeria Spp. — Part 1: Detection Method
			US FDA BAM Chapter 10 Detection of Listeria monocytogenes in Foods and Environmental Samples, and Enumeration of Listeria monocytogenes in Foods
			CMMEF Chapter 17 Halophilic and Osmophilic Microorganisms
		pH at 37 degree C for 10 days	IS 2860 Methods of sampling and test for processed fruits and vegetables
		pH at 55 degree C for 7 days	IS 2860 Methods of sampling and test for processed fruits and vegetables
		Salmonella	AOAC 2004.03 VIDAS Salmonella in Foods Enzyme-Linked fluorescent Assay (ELFA) Screening method
			AOAC 2013.01 Salmonella in a Variety of Foods VIDAS® UP Salmonella (SPT) Method Salmonella

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			AOAC 996.08 VIDAS Salmonella in Foods Enzyme-Linked Immunofluorescent Assay Screening method (VIDAS Salmonella (SLM) Assay)
			IS 5887 (P-3) Methods for Detection of Bacteria Responsible for Food Poisoning Part 3 Horizontal Method for the Detection, Enumeration and Serotyping of Salmonella Section 1 Detection of Salmonella spp.
			ISO 6579-1 Microbiology of the food chain — Horizontal method for the detection, enumeration and serotyping of Salmonella — Part 1: Detection of Salmonella spp.
			US FDA BAM Chapter 5 Salmonella
		Shigella	IS 5887 (P-7) Methods for Detection of Bacteria Responsible for Food Poisoning - Part 7 : General Guidance on Methods for Isolation and Identification of Shigella
			ISO 21567 Microbiology of food and animal feeding stuffs — Horizontal method for the detection of Shigella spp.
			US FDA BAM Chapter 6 Shigella
		Staphylococcus aureus	IS 5887 (P-2) Methods for detection of bacteria responsible for food poisoning: Part 2 Isolation, identification and enumeration of Staphylococcus aureus and faecal streptococci
			IS 5887 (P-8) Methods for Detection of Bacteria Responsible for Food Poisoning - Part 8 : Horizontal Method for Enumeration of Coagulase-

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
			Positive Staphylococci (Staphylococcus Aureus and other Species) - Sec 1 : Technique Using Baird-Parker Agar Medium
			ISO 6888-1 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
			US FDA BAM Chapter 12 Staphylococcus aureus
		Sulphite reducing bacteria	ISO 15213 Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of sulfite-reducing bacteria growing under anaerobic conditions
		Sulphite reducing clostridia	ISO 15213 Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of sulfite-reducing bacteria growing under anaerobic conditions
		Thermophilic Flat sour spore formers	CMMEF Chapter 26 thermophilic flat Sour sporeformers
		Vibrio cholerae	IS 5887 (P-5) methods for detection of bacteria responsible for food poisoning :part 5 isolation, identification and enumeration of Vibrio cholerae and Vibrio parahaemolyticus
			ISO 21872-1 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
			US FDA BAM Chapter 9 Vibrio

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		Vibrio parahaemolyticus	IS 5887 (P-5) methods for detection of bacteria responsible for food poisoning :part 5 isolation, identification and enumeration of Vibrio cholerae and Vibrio parahaemolyticus
			ISO 21872-1 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
			US FDA BAM Chapter 9 Vibrio
		Yeast and Mold	AOAC 2014.05 Enumeration of Yeast and Mold in Food 3M™ Petrifilm™ Rapid Yeast and Mold Count plate
			US FDA BAM Chapter 18 Yeasts, Molds and Mycotoxins
			IS 5403 Method for Yeast and Mould Count of Foodstuffs and animal feeds
			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
Chemical	Alcoholic Drinks and Beverages (Whisky, Rum, Gin, Beer, Vodka)	Alcohol Content	IS 3752 Alcoholic drinks - Methods of test
		Aldehydes	FSSAI 13.018 Determination of Aldehydes - Titrimetric Method
			IS 3752 Alcoholic drinks - Methods of test
		Aroma	EASI-GEN-SOP-26 Procedure for Sensory Evaluation of Food samples
		Ash Content	IS 3752 Alcoholic drinks - Methods of test
		Caramel	AOAC 948.07 Caramel in Wines

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		Carbon-Dioxide	EASI-CHE-SOP-274 Estimation of Carbon Dioxide in Carbonated Beverages
		Description	EASI-GEN-SOP-26 Procedure for Sensory Evaluation of Food samples
		Esters	FSSAI 13.010 Determination of Total Esters
			IS 3752 Alcoholic drinks - Methods of test
		Ethyl alcohol content	FSSAI 13.001 Determination of Ethyl Alcohol Content - Pycnometer Method or Hydrometer Method
		Ethyl Carbamate (Urethane)	EASI-CHE-SOP-114 Determination of ethyl carbamate (urethane) in alcoholic drinks and beverages By GC-MSD
		Extracts	FSSAI 13.032 Determination of Extracts in Wines
		Fixed Acidity	IS 3752 Alcoholic drinks - Methods of test
		Furfural	FSSAI 13.021 Determination of Furfural - Colorimetric Method
			IS 3752 Alcoholic drinks - Methods of test
		Gluten Allergens	EASI-MB-SOP-034 Determination of Gluten Allergens by ELISA
		Higher alcohols	FSSAI 13.013 Determination of Higher Alcohols - Titrimetric Method
		Higher Alcohols as Amyl Alcohol	IS 3752 Alcoholic drinks - Methods of test
		Hydrogen cyanamide	EASI-CHE-SOP-66, DETERMINATION OF HCN IN FOOD AND FEEDS BY HPLC-FLD
		Iodine	AOAC 2012.15 Total Iodine in Infant Formula and Adult/Pediatric Nutritional Formul
		Methanol Content	IS 3752 Alcoholic drinks - Methods of test

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		Methyl alcohol	FSSAI 13.028 Determination of Methyl Alcohol - Gas Chromatographic Method
		Miscibility with water	IS 323 Rectified Spirit For Industrial Use
		Mouth Feel	EASI-GEN-SOP-26 Procedure for Sensory Evaluation of Food samples
		Neotame	EASI-CHE-SOP-222 Determination of Sweeteners by HPLC
		Peanut Allergens	EASI-MB-SOP-036 Determination of Peanut allergens by ELISA
		Permanganate reaction time	IS 6613 Neutral Spirit for Alcoholic Drinks
		pH	IS 3865 Beer
		Reducing Sugar	AOAC 925.42 Sugars (Reducing) Before Inversion in Food Dressings
		Relative density	IS 6613 Neutral Spirit for Alcoholic Drinks
		Residue on evaporation	IS 3752 Alcoholic drinks - Methods of test
			FSSAI 13.006 Determination of Residue on Evaporation
			AOAC 950.27 Solids (Total) in Non Acoholic Beverages
		Sorbitol content	EASI-CHE-SOP-234, Determination of sorbitol and Xylose by HPLC
		Specific Gravity	IS 3752 Alcoholic drinks - Methods of test
			AOAC 935.18 Specific Gravity of Cordials and Liqueurs
		Sucralose	EASI-CHE-SOP-138, DETERMINATION OF SUCRALOSE BY HPLC
		Sulphur dioxide	FSSAI 13.029 Determination of Total Sulphur Dioxide (for Wines only) - Modified Monier Williams Method (Shiphton's Method)

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
		Tannins	FSSAI 13.031 Determination of Tannins (for Wines only)
			EASI-CHE-SOP-116 Determination of Tannin in fruit, fruit products and beverages
		Texture	EASI-GEN-SOP-26 Procedure for Sensory Evaluation of Food samples
		Total Acid As Tartaric Acid Expressed in Terms of G/100 l of Absolute	IS 3752 Alcoholic drinks - Methods of test
		Total acidity (as tartaric acid)	FSSAI 13.007 Determination of Total Acids (as Tartaric Acid) - Method I (for colourless liquors)/FSSAI 13.008 Determination of Total Acids (as Tartaric Acid) - Method II (for coloured liquors such as Wine, Toddy)
		Total Sugar	AOAC 945.66 Total reducing sugars
		Volatile Acid As Acetic Acid Expressed in Terms of 100 l of Absl	IS 3752 Alcoholic drinks - Methods of test
		Volatile acids (as acetic acid)	FSSAI 13.009 Determination of Volatile Acids (as Acetic Acid)
	Animal Food & Feed	Acetic acid	EASI-CHE-SOP-133 Determination of Organic Acids by HPLC–UV
		Acid Insoluble Ash	IS 7874 : Part 1 Methods of tests for animal feeds and feeding stuffs: Part 1 General methods
		Acidity of Extracted Fat	IS 4684 Edible Groundnut Flour (Expeller Pressed)
		Added Vitamin D	AOAC 995.05 Vitamin D in Infant Formulas and Enteral Products
		Amino Acids (Aspartic Acid, Serine, Glutamic Acid, Glycine, Histidine, Arginine, Threonine, Alanine, Proline, Cystine, Tyrosine, Valine, Methionine, Lysine, Iso Leucine, Leucine,	EASI-CHE-SOP-025, Determination of Amino acids by HPLC-FLD after derivatization with AQC

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
		Phenyl Alanine, Tryptophan)	
		Amylopectin	Internal Method by calculation
		Amylose	ISO 6647-1: Determination of amylose content
		Antioxidants(BHA, BHT, TBHQ)	AOAC 983.15 Phenolic Antioxidants in Oils, Fats, and Butter Oil
			EASI-CHE-SOP-55, DETERMINATION OF ANTIOXIDANTS (BHA, BHT, TBHQ, Propyl gallate and Ascorbyl palmitate) IN FOOD SAMPLES
		Ash	AOAC 923.03 Ash of Flour
			AOAC 942.05 Ash of Animal Feed
			IS 7874 : Part 1 Methods of tests for animal feeds and feeding stuffs: Part 1 General methods
		Beta Carotene	BS EN 12823 P-2, Foodstuffs - Determination of vitamin A by high performance liquid chromatography - Part 2: Measurement of p-carotene
		Carbohydrates	EASI-CHE-SOP-123 Procedure for calculation of Energy value
			AOAC 986.25 Proximate Analysis of Milk-Based Infant Formula
		Carnitine	AOAC 2015.10 Free and Total Choline and Carnitine in Infant Formula and Adult/Pediatric Nutritional Formula
		Choline	AOAC 2015.10 Free and Total Choline and Carnitine in Infant Formula and Adult/Pediatric Nutritional Formula
			EASI-CHE-SOP-

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
			201, Determination of Choline and Carnitine (Free and total) in Infant Formula and Adult/Pediatric Nutritional Formula by LC-MS/MS
		Citric acid	EASI-CHE-SOP-133 Determination of Organic Acids by HPLC-UV
		Crude Fat	AOAC 922.06 Fat in flour
			AOAC 920.39 Fat (Crude) or Ether Extract in Animal Feed
			IS 7874 : Part 1 Methods of tests for animal feeds and feeding stuffs: Part 1 General methods
		Crude Fiber	AOAC 962.09 Fiber (Crude) in Animal Feed and Pet Food
			IS 7874 : Part 1 Methods of tests for animal feeds and feeding stuffs: Part 1 General methods
		Crude Protein	AOAC 984.13 Protein (Crude) in Animal Feed and Pet Food
			AOAC 954.01 Protein (Crude) in Animal Feed and Pet Food
			IS 7874 : Part 1 Methods of tests for animal feeds and feeding stuffs: Part 1 General methods
			IS 7219 Method for determination of protein in foods and feeds
		Cyanocobalamin	AOAC 952.20 Cobalamin (Vitamin B12 Activity) in Vitamin Preparations
			AOAC 2011.09 Vitamin B12 in Infant Formula and Adult Nutritionals
			JAOAC Vol. 95, No. 4 Determination of Vitamins A (Retinol) and E (alpha-Tocopherol)

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
			in Foods by Liquid Chromatography: Collaborative Study
		Foreign matter	EASI-CHE-SOP-209 Procedure for physical parameters in food
		Formic acid	EASI-CHE-SOP-133 Determination of Organic Acids by HPLC–UV
		Hydrogen cyanamide	EASI-CHE-SOP-66, DETERMINATION OF HCN IN FOOD AND FEEDS BY HPLC–FLD
		Iodine	JAOAC, Vol. 84(6) Determination of Iodine in Seafood by Inductively coupled plasma/Mass Spectrometry
			AOAC 2012.15 Total Iodine in Infant Formula and Adult/Pediatric Nutritional Formul
		KOH Solubility	The Journal of Applied Poultry Research
		Lactic acid	EASI-CHE-SOP-133 Determination of Organic Acids by HPLC–UV
		Moisture	IS 7874 : Part 1 Methods of tests for animal feeds and feeding stuffs: Part 1 General methods
			AOAC 925.10 Solids (Total) and Loss on Drying (Moisture) in Flour
			AOAC 934.01 Loss on Drying
			AOAC 930.15 Loss on Drying
			AOAC 925.04 Moisture in Animal Feed
		Nitrogen Soluble Index-NSI	IS 7835 Edible Medium-fat Soya Flour
		Omega 3	AOAC 996.01 Fat (Total, Saturated, Unsaturated, and Monounsaturated) in Cereal Products
			EASI-CHE-SOP-166 DETERMINATION OF THE

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
			FATTY ACID PROFILE (SATURATED, UNSATURATED, TRANS FATTY ACIDS,Ω-FATTY ACIDS) BY GAS CHROMATOGRAPH
		Omega 6	EASI-CHE-SOP-166 DETERMINATION OF THE FATTY ACID PROFILE (SATURATED, UNSATURATED, TRANS FATTY ACIDS,Ω-FATTY ACIDS) BY GAS CHROMATOGRAPH
			AOAC 996.01 Fat (Total, Saturated, Unsaturated, and Monounsaturated) in Cereal Products
		Omega 9	AOAC 996.01 Fat (Total, Saturated, Unsaturated, and Monounsaturated) in Cereal Products
			EASI-CHE-SOP-166 DETERMINATION OF THE FATTY ACID PROFILE (SATURATED, UNSATURATED, TRANS FATTY ACIDS,Ω-FATTY ACIDS) BY GAS CHROMATOGRAPH
		Oxalic acid	EASI-CHE-SOP-133 Determination of Organic Acids by HPLC–UV
		PDI (Protein dispersion index)	AOCS Ba 10-65 Ash in Oilseed Cake and Meals
		Peanut Allergens	EASI-MB-SOP-036 Determination of Peanut allergens by ELISA
		pH	EASI-CHE-SOP-262 SOP for determination of pH
		Ratio of Linoleic acid/a-Linolenic acid	EASI-CHE-SOP-166 DETERMINATION OF THE FATTY ACID PROFILE (SATURATED, UNSATURATED, TRANS FATTY ACIDS,Ω-FATTY

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			ACIDS) BY GAS CHROMATOGRAPH
		Salt (as NaCl)	IS 7874 (P-2) Methods of tests for animal feeds and feeding stuffs:Part 2 Minerals and trace elements
		Starch	AOAC 920.40 Starch in Animal feed
		Sulphate	IS 2317 Method for gravimetric determination of sulphates
		Total Dietary Fiber	AOAC 985.29 Total Dietary Fiber in Foods
			AOAC 991.43 Total, Soluble, and Insoluble Dietary Fiber in Foods
		Total Sugar	AOAC 945.66 Total reducing sugars
		Trypsin inhibitor	AOCS Ba 10-65 Ash in Oilseed Cake and Meals
		Urea	IS 7874 (P-2) Methods of tests for animal feeds and feeding stuffs:Part 2 Minerals and trace elements
		Urease Activity	IS 7835 Edible Medium-fat Soya Flour
		Vitamin A	AOAC 2001.13 Vitamin A (Retinol) in Foods by Liquid Chromatography
			J of AOAC Vol 95(2)
			ISO 14565,Animal feeding stuffs — Determination of vitamin A content — Method using high-performance liquid chromatography
		Vitamin B1 (Thiamin)	BS EN 14122,Foodstuffs — Determination of vitamin B1 by HPLC
		Vitamin B2 (Riboflavin)	BS EN 14152,Foodstuffs — Determination of vitamin B2 by HPLC
		Vitamin B3	BS EN 15652,Foodstuffs — Determination of niacin by HPLC

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		Vitamin B5	EASI-CHE-SOP-020, DETERMINATION OF PANTOTHENIC ACID (VITAMIN B5) IN FOOD, FEED, NEUTRACEUTICALS AND PREMIXES
		Vitamin B6	BS EN 14164, Foodstuffs- Determination of vitamin B6 by HPLC
		Vitamin B7 (Biotin)	EASI-CHE-SOP-70, DETERMINATION OF BIOTIN (VITAMIN B7) IN FOOD, FEED, NEUTRACEUTICAL AND PREMIX SAMPLES
		Vitamin B9	EASI-CHE-SOP-71, Determination of Folic Acid (Vitamin B9) in Food, Feed, Neutraceutical and Premix Samples
		Vitamin C	AOAC 2012.21 Vitamin C in Infant Formula and Adult/Pediatric Nutritional Formula

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Effective Date January 12, 2024

FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
Chemical continued	Animal Food & Feed continued	Vitamin D	AOAC 2016.05 Analysis of Vitamin D2 and Vitamin D3 in Fortified Milk Powders, Infant Formulas, and Adult/Pediatric Nutritional Formulas
			AOAC 995.05 Vitamin D in Infant Formulas and Enteral Products
			AOAC 2011.11 Vitamin D in Infant Formula and Adult/Pediatric Nutritional Formula
			ISO 14892, Dried skimmed milk — Determination of vitamin D content using high-performance liquid chromatography
		Vitamin D2	AOAC 2016.05 Analysis of Vitamin D2 and Vitamin D3 in Fortified Milk Powders, Infant Formulas, and Adult/Pediatric Nutritional Formulas
		Vitamin D3	AOAC 2016.05 Analysis of Vitamin D2 and Vitamin D3 in Fortified Milk Powders, Infant Formulas, and Adult/Pediatric Nutritional Formulas
			IS 2052, COMPOUNDED FEEDS FOR CATILE - SPECIFICATION
		Vitamin E	J of AOAC 2001.13 Determination of Vitamins A (Retinol) and E (alpha-Tocopherol)

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
			in Foods by Liquid Chromatography: Collaborative Study
			IS 2052 Compounded Feeds for Cattle
		Vitamin K	AOAC 999.15 AOAC Official Method 999.15 Vitamin K in Milk and Infant Formulas Liquid Chromatographic Method
		Water Activity	EASI-CHE-SOP-215 Procedure for Water Activity
	Ayush, Herbal & its products	Alginic Acid	EASI-CHE-SOP-182 Determination of alginic acid in sea weed extract
		Bacosides	USP 35
		Berberine	EASI-CHE-SOP-223, DETERMINATION OF BERBERINE CONTENT BY HPLC
		Bitterness	EASI-CHE-SOP-173 Determination of total bitterness in plants & by products
		Boswellia	EASI-CHE-SOP-235 Determination of Boswellic Acid by HPLC-UV
		Boswellic acid	EASI-CHE-SOP-172 Determination of Gymnemic Acid in Gymnemia Extract
		Catechin	ISO 14502 P-2, Determination of substances characteristic of green and black tea — Part 2: Content of catechins in green tea — Method using high-performance liquid chromatography
		chlorogenic acid	EASI-CHE-SOP-176, DETERMINATION OF CHLOROGENIC ACID IN GREEN COFFEE AND HERBAL EXTRACT SAMPLES
		Chlorophyll	EASI-CHE-SOP-169 Determination of Total Chlorophyll in Plant and its products

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
		Coumarin	EASI-CHE-SOP-179, DETERMINATION OF COUMARIN IN CINNAMON WHOLE, CASSIA AND OTHER SPICES AND SPICE PRODUCTS BY HPLC.
		Curcuminoids	EASI-CHE-SOP-103, Determination of Total curcuminoids in Turmeric and Turmeric products
		Epitinosporide	EASI-CHE-SOP-149 Determination of guduchi biomarker (EPI-TINOSPORIDE) in beverage and plant extracts by HPLC-UV
		Flavanoid	EASI-CHE-SOP-170 Determination of Flavenoids in Plant and Plant products
		Forskohlin	EASI-CHE-SOP-56, Determination of Forskolin in Plant Extract samples
		Garcinia	EASI-CHE-SOP-54, Determination of Assay in Garcinia extract samples
		Gingerol	EASI-CHE-SOP-76, Determination of total Gingerols in Gingene (OLNP-06) and Ginger products by HPLC-UV/DAD
		Gymnemic acid	EASI-CHE-SOP-172 Determination of Gymnemic Acid in Gymnemia Extract
		Lutein	EASI-CHE-SOP-177 Analysis of Lutein content in Marigold Oleoresin
		Melamine	EASI-CHE-SOP-203 Determination of Melamine and Cyanuric Acid By LC-MS/MS.
		Milk Allergens	EASI-MB-SOP-038 Determination of Milk allergens by ELISA
		Nicotine	EASI-CHE-SOP-032-

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
			Determination of Nicotine in tea and other plant materials by GC MSD and GC-MS/MS
		Peanut Allergens	EASI-MB-SOP-036 Determination of Peanut allergens by ELISA
		Proanthocyanidine	EASI-CHE-SOP-181 Determination of Proanthocyanidins (PAC) in plants and its products
		Rosmerinic acid	EASI-CHE-SOP-151 Determination of rosmerinic acid biomarker in beverage and plant extracts by HPLC-UV
		Safrole	EASI-CHE-SOP-023- Determination of Safrole in Soft Drinks and Food Products by GC-MSD
		Sennosides	EASI-CHE-SOP-157, DETERMINATION OF SENNOSIDES IN PLANTS AND HERBAL EXTRACT SAMPLES
			EASI-CHE-SOP-131, Determination of Sennoside content by UV Spectrophotometer
		Soya Allergens	EASI-MB-SOP-037 Determination of Soya allergens by ELISA
		Total Carotenoids	EASI-CHE-SOP-183 Determination of total Carotenoids as β -carotene in plants and its products
		Ursolicacid	EASI-CHE-SOP-128, DETERMINATION OF URSOLIC ACID BY HPLC
		Ursolicacid, Oleolinic acid	EASI-CHE-SOP-150, DETERMINATION OF OLEANOLIC ACID AND URSOLIC ACID BIOMARKER IN BEVERAGE AND PLANT EXTRACTS BY HPLC-UV
		Vanillin	EASI-CHE-SOP-155

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
			Determination of Vanillin in Vanilla beans, spices and Herbal extract samples
		Withanolides	EASI-CHE-SOP-152, DETERMINATION OF WITHANOLIDES IN BEVERAGE AND PLANT EXTRACTS BY HPLC-UV
			EASI-CHE-SOP-126, DETERMINATION OF WITHANOLIDES BY HPLC-UV/DAD
		Xanthophyll	EASI-CHE-SOP-171 Determination of Total Xanthophyll in Marigold Oleoresin
	Beverages (Alcoholic & Non-alcoholic)	Cyanuric acid	EASI-CHE-SOP-203 Determination of Melamine and Cyanuric Acid By LC-MS/MS.
		Flamprop-M-methyl	EASI-CHE-SOP-021 Determination of Pesticide residue in Food & Agricultural Products by GC-MS and LC-MS/MS
		Foramsulfuron	EASI-CHE-SOP-021 Determination of Pesticide residue in Food & Agricultural Products by GC-MS and LC-MS/MS
		Hexanal	EASI-CHE-SOP-231- Determination of Hexanal in Food Matrices by GC-MSD-HSS
		MCP (Mecoprop)	EASI-CHE-SOP-021 Determination of Pesticide residue in Food & Agricultural Products by GC-MS and LC-MS/MS
		Peanut Allergens	EASI-MB-SOP-036 Determination of Peanut allergens by ELISA
		Vinyl chloride	EASI-CHE-SOP-190- Determination of acrylonitrile and Vinyl Chloride in food matrices by GC-MSD-HSS

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
	Non Alcoholic Beverages	Acesulfame	FSSAI Lab manual 8 Page. 65
		Acesulfame K	EASI-CHE-SOP-222 Determination of Sweeteners by HPLC
		Acid Insoluble Ash	AOAC 923.03 Ash of Flour
			IS 7874 : Part 1 Method Methods of tests for animal feeds and feeding stuffs: Part 1 General methods
		Acidity of Extracted Fat	IS 4684 Edible Groundnut Flour (Expeller Pressed)
		Added Vitamin D	ISO 14892, Dried skimmed milk — Determination of vitamin D content using high-performance liquid chromatography
		Alcoholic Acidity	IS 12711 Bakery Products - Methods of Analysis
			IS 1009 (wheat flour) Maida for General Purposes
		Aldehydes	AOAC 950.23 Benzaldehyde in Nonalcoholic Beverages
		Alkalinity of Ash	IFU Method. 10 Determination of Ash alkalinity
		Amino Acids (Aspartic Acid, Serine, Glutamic Acid, Glycine, Histidine, Arginine, Threonine, Alanine, Proline, Cystine, Tyrosine, Valine, Methionine, Lysine, Iso-Leucine, Leucine, Phenyl Alanine, Tryptophan)	EASI-CHE-SOP-025, Determination of Amino acids by HPLC-FLD after derivatization with AQC
		Aroma	EASI-GEN-SOP-26 Procedure for Sensory Evaluation of Food samples
		Ash	AOAC 923.03 Ash of Flour
			IS 7874 : Part 1 Method Methods of tests for animal feeds and feeding stuffs: Part 1 General methods
			IFU Method 09 Determination of ash

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
		Ash Content	AOAC 900.02 Ash of Sugars and Syrups
		Aspartame	FSSAI Lab manual 8 Page. 65
		Benzoic Acid	FSSAI lab manual 8 Page. 73
		Benzoic Acid/Benzoyl Peroxide	FSSAI Lab manual 8 Page. 13
			AOAC 994.11 Benzoic acid in orange juice
		Beta Carotene	BS EN 12823 P-2, Foodstuffs - Determination of vitamin A by high performance liquid chromatography - Part 2: Measurement of p-carotene
		BHA	FSSAI manual 8 Page. 106
			AOAC 983.15 Phenolic Antioxidants in Oils, Fats, and Butter Oil
		BHT	FSSAI Lab manual 8 Page. 106
			AOAC 983.15 Phenolic Antioxidants in Oils, Fats, and Butter Oil
		Brilliant Blue	FSSAI Manual 8, HPLC-DAD
		Bulk Density	ASTA Method 25.0 Bulk Index/Bulk Density
		Caffeine	FSSAI lab manual 8 Page. 73
			ISO 14502 P-2, Determination of substances characteristic of green and black tea — Part 2: Content of catechins in green tea — Method using high-performance liquid chromatography
		Caramel	AOAC 948.07 Caramel in Wines
		Carbohydrate	AOAC 979.06 Carbohydrate Content in Beer
		Carbohydrates	EASI-CHE-SOP-123 Procedure for calculation of Energy value
			By calculation/NIN method

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
		Carbon-Dioxide	IS 1760 (P-4) Methods of chemical analysis of limestone, dolomite and allied materials Part 4 Determination of carbon dioxide
			AOAC 960.20 Carbon Dioxide in wines
		Carmoisine	FSSAI Manual 8, HPLC-DAD
		Chloride	IS 11763 Cheese And Processed Cheese Products — Determination Of Chloride Content — Potentiometric Titration Method
			AOAC 2016.03 Chloride in Milk, Milk Powder, Whey Powder, Infant Formula, and Adult Nutritionals
		Cholesterol	AOAC 994.10 Cholesterol in Foods
		Coloring Matter	FSSAI lab Manual 8 Page 81
		Consistency	EASI-CHE-SOP-119 Use and maintenance of Bostwick Consistometer.
		Crude Fat	IS 7874 : Part 1 Methods of tests for animal feeds and feeding stuffs: Part 1 General methods
		Crude Fiber	AOAC 962.09 Fiber (Crude) in Animal Feed and Pet Food
		Crude Protein	AOAC 984.13 Protein (Crude) in Animal Feed and Pet Food
			IS 7874 : Part 1 Methods of tests for animal feeds and feeding stuffs: Part 1 General methods
			IS 7219 Method for determination of protein in foods and feeds
		Cyanocobalamin	AOAC 952.20 Cobalamin (Vitamin B12 Activity) in Vitamin Preparations
			AOAC 2011.09 Vitamin B12 in Infant Formula and Adult Nutritionals

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
			AOAC 2011.10 Vitamin B12 in Infant Formula and Adult Nutritionals
		Description	EASI-GEN-SOP-26 Procedure for Sensory Evaluation of Food samples
		Dietary fiber	AOAC 985.29 Total Dietary Fiber in Foods
		Dietary fiber	AOAC 991.43 Total, Soluble, and Insoluble Dietary Fiber in Foods
		Drained/Net Weight	IS 2860 Methods of sampling and test for processed fruits and vegetables
		Energy	EASI-CHE-SOP-123 Procedure for calculation of Energy value
			NIN by Gopalan (by Calculation)
		Erythrosine	FSSAI Manual 8, HPLC-DAD
		Esters	AOAC 950.22 Esters in Nonalcoholic Beverages
		Ethanol	EASI-CHE-SOP-031 Determination of Residual Solvents in Food and Plant Materials by GC MSD with Head Space Sampler
		Fast green	FSSAI Manual 8, HPLC-DAD
		Fat	IS 7874 : Part 1 Methods of tests for animal feeds and feeding stuffs: Part 1 General methods
			AOAC 922.06 Fat in flour
		Fatty acid Profile	AOAC 996.01 Fat (Total, Saturated, Unsaturated, and Monounsaturated) in Cereal Products
		Fatty Acid Profile (Saturated Fatty Acids, Mono Unsaturated Fatty Acid, Poly Unsaturated Fatty Acid and Trans Fatty Acid)	AOAC 996.01 Fat (Total, Saturated, Unsaturated, and Monounsaturated) in Cereal Products
			AOAC 996.06 Fat (Total, Saturated, and Unsaturated) in Foods

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			EASI-CHE-SOP-166 DETERMINATION OF THE FATTY ACID PROFILE (SATURATED, UNSATURATED, TRANS FATTY ACIDS,Ω-FATTY ACIDS) BY GAS CHROMATOGRAPH
			AOAC 2012.13 Labeled Fatty Acids Content in Milk Products, Infant Formula, and Adult/Pediatric Nutritional Formula
		Fatty Acid Profile - Saturated Fatty Acids	AOAC 996.06 Fat (Total, Saturated, and Unsaturated) in Foods
			AOAC 996.01 Fat (Total, Saturated, Unsaturated, and Monounsaturated) in Cereal Products
		Fatty Acid Profile-Mono Unsaturated Fatty Acid	ISO 5509 Animal and vegetable fats and oils — Preparation of methyl esters of fatty acids
			AOAC 996.01 Fat (Total, Saturated, Unsaturated, and Monounsaturated) in Cereal Products
			AOAC 996.06 Fat (Total, Saturated, and Unsaturated) in Foods
		Fatty Acid Profile-Poly Unsaturated Fatty Acid	ISO 5509 Animal and vegetable fats and oils — Preparation of methyl esters of fatty acids
			AOAC 996.01 Fat (Total, Saturated, Unsaturated, and Monounsaturated) in Cereal Products
			AOAC 996.06 Fat (Total, Saturated, and Unsaturated) in Foods
		Fatty Acid Profile-Trans Fatty Acid	ISO 5509 Animal and vegetable fats and oils — Preparation of methyl esters of fatty acids
			AOAC 996.01 Fat (Total, Saturated, Unsaturated, and

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
			Monounsaturated) in Cereal Products
			AOAC 996.06 Fat (Total, Saturated, and Unsaturated) in Foods
		Formal Number	IFU Rev. 2005 Method. 30 Determination of formol Number
		Fulvic acid	EASI-CHE-SOP-175 Determination of Fulvic Acid in Herbal and Herbal Products
		Furfural	AOAC 960.16 Furfural in Distilled Liquors
		Gluten Allergens	EASI-MB-SOP-034 Determination of Gluten Allergens by ELISA
		HMF	IFU Rev. 2005 Method. 69
		Humic acid	ISO 5073 Brown coals and lignites — Determination of humic acids
		Hydrogen cyanamide	EASI-CHE-SOP-66, DETERMINATION OF HCN IN FOOD AND FEEDS BY HPLC-FLD
		Indigo Carmine	FSSAI Manual 8, HPLC-DAD
		Iodine	AOAC 2012.15 Total Iodine in Infant Formula and Adult/Pediatric Nutritional Formul
			JAOAC, Vol. 84(6) Determination of Iodine in Seafood by Inductively coupled plasma/Mass Spectrometry
		L-Ascorbyl palmitate, Propyl Gallate	EASI-CHE-SOP-55, DETERMINATION OF ANTIOXIDANTS (BHA, BHT, TBHQ, Propyl gallate and Ascorbyl palmitate) IN FOOD SAMPLES
		Lycopene	EASI-CHE-SOP-174 Determination of Total Lycopene in Fruit and Vegetable Products

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
		Moisture	AOAC 925.09 Solids (Total) and Loss on Drying (Moisture) in Flour
			AOAC 925.10 Solids (Total) and Loss on Drying (Moisture) in Flour
			IS 7874 : Part 1 Methods of tests for animal feeds and feeding stuffs: Part 1 General methods
			AOAC 920.151 Solids (Total) in Fruits and Fruits Products
			AOAC 935.29 Loss on Drying (Moisture) in Malt
		Monounsaturated fatty acids	AOAC 996.01 Fat (Total, Saturated, Unsaturated, and Monounsaturated) in Cereal Products
		Mouth Feel	EASI-GEN-SOP-26 Procedure for Sensory Evaluation of Food samples
		Neotame	EASI-CHE-SOP-222 Determination of Sweeteners by HPLC
		Peanut Allergens	EASI-MB-SOP-036 Determination of Peanut allergens by ELISA
		Pectin	IFU Rev. 2005 Method. 26 Pectin
			EASI-CHE-SOP-167 Determination of Pectin by UV-VIS Spectrophotometer in Fruit and Fruit Products
		pH	IS 3865 Beer
			IFU Method 11 Determination of pH Value
			EASI-CHE-SOP-262 SOP for determination of pH
		Polyphenols as Gallic Acid	ISO 14502 P-1, Determination of substances characteristic of green and black tea — Part 1: Content of total polyphenols in tea — Colorimetric method using Folin-Ciocalteu reagent

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
		Polyunsaturated fatty acids	AOAC 996.01 Fat (Total, Saturated, Unsaturated, and Monounsaturated) in Cereal Products
		Ponceau 4R	FSSAI Manual 8, HPLC-DAD
		Propionate As Propionic Acid	EASI-CHE-SOP-133 Determination of Organic Acids by HPLC-UV
		Protein	AOAC 920.152 Protein in Fruit Products
			IS 7219 Method for determination of protein in foods and feeds
		Residue on Evaporation	AOAC 950.27 Solids (Total) in Non Acoholic Beverages
		Saccharin	EASI-CHE-SOP-222 Determination of Sweeteners by HPLC
			FSSAI Lab manual 8 Page.65
		Saponins	EASI-CHE-SOP-147 Determination of Saponin in food & food products
		Saturated fatty acids	AOAC 996.01 Fat (Total, Saturated, Unsaturated, and Monounsaturated) in Cereal Products
			AOAC 2012.13 Labeled Fatty Acids Content in Milk Products, Infant Formula, and Adult/Pediatric Nutritional Formula
		Sieve Analysis	ASTA method 10.0 Sieve Analysis
		Soluble and Insoluble Dietary Fibre	AOAC 991.43 Total, Soluble, and Insoluble Dietary Fiber in Foods
		Soluble Solids	AOAC 983.17 Solids (Soluble) in Citrus Fruit Juices
		Sorbic Acid (As Calcium, Sodium, Potassium Salt)	FSSAI Lab manual 8 Page. 106 by HPLC-UV
		Sorbitol content	EASI-CHE-SOP-234, Determination of sorbitol and Xylose by HPLC

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
		Specific Gravity	IS 2860 Methods of sampling and test for processed fruits and vegetables
		Starch	IS 4706 P-2 Methods of tests for edible starches and starch products: Part 2 Chemical methods
			AOAC 925.38 Starch in Fruits and Fruit Products
		Sucralose	EASI-CHE-SOP-138, DETERMINATION OF SUCRALOSE BY HPLC
		Sugar Profile-Fructose	AOAC 982.14 Glucose, Fructose, Sucrose, and Maltose in Presweetened Cereals
		Sugar Profile-Glucose	AOAC 982.14 Glucose, Fructose, Sucrose, and Maltose in Presweetened Cereals
		Sugar Profile-Lactose	AOAC 982.14 Glucose, Fructose, Sucrose, and Maltose in Presweetened Cereals
		Sugar Profile-Maltose	AOAC 982.14 Glucose, Fructose, Sucrose, and Maltose in Presweetened Cereals
		Sugar Profile-Sucrose	AOAC 982.14 Glucose, Fructose, Sucrose, and Maltose in Presweetened Cereals
		Sugars	AOAC 930.36 Sucrose in Sugars and Syrups
			AOAC 982.14 Glucose, Fructose, Sucrose, and Maltose in Presweetened Cereals
		Sulphur Dioxide	AOAC 990.28 Sulfites in Foods
		Sunset Yellow	FSSAI Manual 8, HPLC-DAD
		Tartrazine	EASI-CHE-SOP-105, Determination of Synthetic food colors in food and food products
		TBHQ	FSSAI manual 8 Page. 106
			AOAC 983.15 Phenolic Antioxidants in Oils, Fats, and Butter Oil

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
		Texture	EASI-GEN-SOP-26 Procedure for Sensory Evaluation of Food samples
		Titrateable Acidity As Acetic Acid	AOAC 942.15 Acidity (titrateable) of Fruit Products
		Titrateable Acidity As Citric Acid Monohydrate	AOAC 942.15 Acidity (titrateable) of Fruit Products
		Titrateable Acidity As Lactic Acid	AOAC 942.15 Acidity (titrateable) of Fruit Products
		Titrateable Acidity As Malic Acid	AOAC 942.15 Acidity (titrateable) of Fruit Products
		Titrateable Acidity As Oxalic Acid	AOAC 942.15 Acidity (titrateable) of Fruit Products
		Titrateable Acidity As Sulfuric Acid	AOAC 942.15 Acidity (titrateable) of Fruit Products
		Titrateable Acidity As Tartaric Acid	AOAC 942.15 Acidity (titrateable) of Fruit Products
		Total Acid As Tartaric Acid Expressed in Terms of 100 ml of Absolute	AOAC 942.15 Acidity (titrateable) of Fruit Products
		Total Dietary Fiber	AOAC 985.29 Total Dietary Fiber in Foods
			AOAC 991.43 Total, Soluble, and Insoluble Dietary Fiber in Foods
		Total Fat	AOAC 920.39 Fat (Crude) or Ether Extract in Animal Feed
		Total Solids	AOAC 920.151 Solids (Total) in Fruits and Fruits Products
		Total Soluble Solids/Brix	AOAC 932.12 Solids (Soluble) in Fruits and Fruit Products
			AOAC 976.20 Solids (Soluble) in Frozen Concentrate for Lemonade
			AOAC 983.17 Solids (Soluble) in Citrus Fruit Juices
			IFU Method 8 Determination of Soluble Solids
		Total Sugar	AOAC 945.66 Total reducing sugars
		Trans fatty acids	AOAC 996.01 Fat (Total, Saturated, Unsaturated, and Monounsaturated) in Cereal Products

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		Transmittance	EASI-CHE-SOP-168 Determination of Transmittance in Fruit and Fruit Products
		Urease Activity	IS 7835 Edible Medium-fat Soya Flour
		Vitamin A	AOAC 2001.13 Vitamin A (Retinol) in Foods by Liquid Chromatography
		Vitamin B1 (Thiamin)	BS EN 14122, Foodstuffs — Determination of vitamin B1 by HPLC
		Vitamin B1, B2, B6	AOAC 2015.14 Total Vitamins B1, B2, and B6 in Infant Formula and Related Nutritionals
		Vitamin B2 (Riboflavin)	BS EN 14152, Foodstuffs — Determination of vitamin B2 by HPLC
		Vitamin B3	BS EN 15652, Foodstuffs — Determination of niacin by HPLC
			EASI-CHE-SOP-154, DETERMINATION OF VITAMIN B3, B5, B7, B9 IN NUTRACEUTICALS AND COMPLEMENTARY FOOD PRODUCTS BY LC-MS/MS
		Vitamin B5	EASI-CHE-SOP-154, DETERMINATION OF VITAMIN B3, B5, B7, B9 IN NUTRACEUTICALS AND COMPLEMENTARY FOOD PRODUCTS BY LC-MS/MS
			EASI-CHE-SOP-020, DETERMINATION OF PANTOTHENIC ACID (VITAMIN B5) IN FOOD, FEED, NUTRACEUTICALS AND PREMIXES
		Vitamin B6	BS EN 14164, Foodstuffs- Determination of vitamin B6 by HPLC
		Vitamin B7 (Biotin)	EASI-CHE-SOP-70, DETERMINATION OF BIOTIN (VITAMIN B7) IN FOOD, FEED,

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
			NEUTRACEUTICAL AND PREMIX SAMPLES
			EASI-CHE-SOP-154, DETERMINATION OF VITAMIN B3, B5, B7, B9 IN NUTRACEUTICALS AND COMPLEMENTARY FOOD PRODUCTS BY LC-MS/MS
		Vitamin B9	AOAC 2011.06, Total Folates in Infant Formula and Adult Nutr
			EASI-CHE-SOP-71, Determination of Folic Acid (Vitamin B9) in Food, Feed, Nutraceutical and Premix Samples
			EASI-CHE-SOP-154, DETERMINATION OF VITAMIN B3, B5, B7, B9 IN NUTRACEUTICALS AND COMPLEMENTARY FOOD PRODUCTS BY LC-MS/MS
		Vitamin C	AOAC 2012.21 Vitamin C in Infant Formula and Adult/Pediatric Nutritional Formula
		Vitamin C (Ascorbic Acid)	IFU Rev. 2005 Method. 17a, Fruit and Vegetable
		Vitamin D	AOAC 2011.11 Vitamin D in Infant Formula and Adult/Pediatric Nutritional Formula
		Vitamin E	JAOAC 2001.13 Determination of Vitamins A (Retinol) and E (alpha-Tocopherol) in Foods by Liquid Chromatography: Collaborative Study
		Vitamin K	AOAC 999.15 AOAC Official Method 999.15 Vitamin K in Milk and Infant Formulas Liquid Chromatographic Method
		Volatile Acid As Acetic Acid Expressed in Terms of 100 ml of Absl	AOAC 950.21 Acidity (Volatile) in Nonalcoholic Beverages

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		Volatile Acidity	AOAC 925.34 Acidity (volatile) of Fruit Products
	Cereals, pulses & Cereal Products & Bakery Products, Malted or Malt Based food, Starch and Its products	Acesulfame	FSSAI Lab manual 8 Page. 65
		Acetic acid	EASI-CHE-SOP-133 Determination of Organic Acids by HPLC–UV
		Acid Insoluble Ash	IS 1009 (wheat flour) Maida for General Purposes
		Acid Insoluble Ash	IS 7874 : Part 1 Methods of tests for animal feeds and feeding stuffs: Part 1 General methods
			FSSAI Manual for Analysis of Cereal and Cereal products Page No. 16.
			IS 1158 Corn Flakes
			IS 1010 Suji or Rava (Semolina)
			IS 1155 ATTA - SPECIFICATION
		Acidity of Extracted Fat	IS 4684 Edible Groundnut Flour (Expeller Pressed)
		Added Colouring Matter	FSSAI Manual 8 Page. 81
		Added Vitamin D	ISO 14892, Dried skimmed milk — Determination of vitamin D content using high-performance liquid chromatography
		Alcoholic Acidity	FSSAI Manual for analysis of cereal and cereal products Page No. 18
			IS 12711 Bakery Products - Methods of Analysis
		Alcoholic Acidity (as H ₂ SO ₄) in 90 % alcohol	IS 1009 (wheat flour) Maida for General Purposes
			IS 1010 Suji or Rava (Semolina)
			IS 1155 ATTA - SPECIFICATION

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
		Alkali spread value	EASI-CHE-SOP-209 Procedure for physical parameters in food
		Almond Allergen	EASI-CHE-SOP-236 Determination of Almond allergens by ELISA
		Amino Acids (Aspartic Acid, Serine, Glutamic Acid, Glycine, Histidine, Arginine, Threonine, Alanine, Proline, Cystine, Tyrosine, Valine, Methionine, Lysine, Iso-Leucine, Leucine, Phenyl Alanine, Tryptophan)	EASI-CHE-SOP-025, Determination of Amino acids by HPLC-FLD after derivatization with AQC
		Amylopectin	Internal Method by calculation
		Amylose	ISO 6647-1: Determination of amylose content
		Aroma	EASI-GEN-SOP-26 Procedure for Sensory Evaluation of Food samples
		Ash	AOAC 923.03 Ash of Flour
			IS 7874 : Part 1 Methods of tests for animal feeds and feeding stuffs: Part 1 General methods
		Aspartame	FSSAI Lab manual 8 Page. 65
		Benzoic Acid/Benzoyl Peroxide	FSSAI Lab manual 8 Page. 13
			AOAC 994.11 Benzoic acid in orange juice
		Beta Carotene	BS EN 12823 P-2, Foodstuffs - Determination of vitamin A by high performance liquid chromatography - Part 2: Measurement of p-carotene
			ISO 23443, Infant formula and adult nutritionals — Determination of β -carotene, lycopene and lutein by reversed-phase ultra-high performance liquid chromatography (RP-UHPLC)

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
		BHA	FSSAI manual 8 Page. 106
			AOAC 983.15 Phenolic Antioxidants in Oils, Fats, and Butter Oil
		BHT	FSSAI Lab manual 8 Page. 106
			AOAC 983.15 Phenolic Antioxidants in Oils, Fats, and Butter Oil
		Breadth	ISO 7301 Rice — Specification
		Brilliant Blue	FSSAI Manual 8, HPLC-DAD
		Broken Fragments	ISO 7301 Rice — Specification
		Bulk Density	ASTA Method 25.0 Bulk Index/Bulk Density
		Carbohydrates	AOAC 986.25 Proximate Analysis of Milk-Based Infant Formula
			EASI-CHE-SOP-123 Procedure for calculation of Energy value
			By calculation/NIN method
		Carmoisine	FSSAI Manual 8, HPLC-DAD
		Carnitine	AOAC 2015.10 Free and Total Choline and Carnitine in Infant Formula and Adult/Pediatric Nutritional Formula
		Cashew allergen	EASI-CHE-SOP-257 Determination of cashew allergens by ELISA
		Chalky Grains	ISO 7301 Rice — Specification
		Chloride	IS 11763 Cheese And Processed Cheese Products — Determination Of Chloride Content — Potentiometric Titration Method
			AOAC 2016.03 Chloride in Milk, Milk Powder, Whey Powder, Infant Formula, and Adult Nutritionals
		Cholesterol	AOAC 994.10 Cholesterol in Foods
		Choline	AOAC 2015.10 Free and Total Choline and Carnitine in Infant

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			Formula and Adult/Pediatric Nutritional Formula
		Citric acid	EASI-CHE-SOP-133 Determination of Organic Acids by HPLC–UV
		Cooked rice ratio	EASI-CHE-SOP-209 Procedure for physical parameters in food
		Crude Fat	IS 7874 : Part 1 Methods of tests for animal feeds and feeding stuffs: Part 1 General methods
		Crude Fiber	AOAC 962.09 Fiber (Crude) in Animal Feed and Pet Food
			IS 1155 ATTA - SPECIFICATION
		Crude Fibre	FSSAI Manual for analysis of cereal and cereal products Page No 23
			AOAC 962.09 Fiber (Crude) in Animal Feed and Pet Food
			IS 1158 Corn Flakes
		Crude Protein	AOAC 984.13 Protein (Crude) in Animal Feed and Pet Food
			IS 7874 : Part 1 Methods of tests for animal feeds and feeding stuffs: Part 1 General methods
			IS 7219 Method for determination of protein in foods and feeds
		Crustacean allergen	EASI-CHE-SOP-271 Determination of Crustaceans allergens by ELISA
		Cut & broken	EASI-CHE-SOP-209 Procedure for physical parameters in food
		Cyanocobalamin	AOAC 952.20 Cobalamin (Vitamin B12 Activity) in Vitamin Preparations
			AOAC 2011.09 Vitamin B12 in Infant Formula and Adult Nutritionals
			JAOAC Vol. 95, No. 4

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
		Damaged/Discolored/defective	EASI-CHE-SOP-209 Procedure for physical parameters in food
		Dead Insects or living insect	EASI-CHE-SOP-209 Procedure for physical parameters in food
		Defects	EASI-CHE-SOP-209 Procedure for physical parameters in food
		Description	EASI-GEN-SOP-26 Procedure for Sensory Evaluation of Food samples
		Dietary Fiber	AOAC 985.29 Total Dietary Fiber in Foods
		Dietary Folate equivalent (DFE)3, (As folic acid)	AOAC 2013.13 Folate in Infant Formula and Adult/Pediatric Nutritional Formula
		D-Mannitol	EASI-CHE-SOP-237 Determination of Sugar Alcohol(D-Mannitol, Maltitol ,Xylitol, Isomaltose, Meso-Erythritol and Lactitol by HPLC
		Egg allergen	EASI-CHE-SOP-259 Determination of Egg white allergens by ELISA
		Elongation	ISO 7301 Rice — Specification
		Energy	EASI-CHE-SOP-123 Procedure for calculation of Energy value
			NIN by Gopalan (by Calculation)
		Ergot	FSSAI Manual for analysis of cereal and cereal products Page No 10
		Erythritol	EASI-CHE-SOP-237 Determination of Sugar Alcohol(D-Mannitol, Maltitol ,Xylitol, Isomaltose, Meso-Erythritol and Lactitol by HPLC
		Erythrosine	FSSAI Manual 8, HPLC-DAD
		Excreta	EASI-CHE-SOP-209 Procedure for physical parameters in food
		Extraneous Matter	ISO 7301 Rice — Specification
		Fast green	FSSAI Manual 8, HPLC-DAD

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		Fat	AOAC 920.85 Fat (Crude) or Ether Extract in Flour
		Fatty acid Profile	AOAC 996.01 Fat (Total, Saturated, Unsaturated, and Monounsaturated) in Cereal Products
		Fatty Acid Profile (Saturated Fatty Acids, Mono Unsaturated Fatty Acid, Poly Unsaturated	AOAC 996.01 Fat (Total, Saturated, Unsaturated, and Monounsaturated) in Cereal Products
		Fatty Acid and Trans Fatty Acid)	AOAC 996.06 Fat (Total, Saturated, and Unsaturated) in Foods
			EASI-CHE-SOP-166 DETERMINATION OF THE FATTY ACID PROFILE (SATURATED, UNSATURATED, TRANS FATTY ACIDS,Ω-FATTY ACIDS) BY GAS CHROMATOGRAPH
			AOAC 2012.13 Labeled Fatty Acids Content in Milk Products, Infant Formula, and Adult/Pediatric Nutritional Formula
		Fatty Acid Profile - Saturated Fatty Acids	AOAC 996.06 Fat (Total, Saturated, and Unsaturated) in Foods
			AOAC 996.01 Fat (Total, Saturated, Unsaturated, and Monounsaturated) in Cereal Products
		Fatty Acid Profile-Mono Unsaturated Fatty Acid	ISO 5509 Animal and vegetable fats and oils — Preparation of methyl esters of fatty acids
			AOAC 996.01 Fat (Total, Saturated, Unsaturated, and Monounsaturated) in Cereal Products
			AOAC 996.06 Fat (Total, Saturated, and Unsaturated) in Foods

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		Fatty Acid Profile-Poly Unsaturated Fatty Acid	ISO 5509 Animal and vegetable fats and oils — Preparation of methyl esters of fatty acids
			AOAC 996.01 Fat (Total, Saturated, Unsaturated, and Monounsaturated) in Cereal Products
			AOAC 996.06 Fat (Total, Saturated, and Unsaturated) in Foods
		Fatty Acid Profile-Trans Fatty Acid	ISO 5509 Animal and vegetable fats and oils — Preparation of methyl esters of fatty acids
			AOAC 996.01 Fat (Total, Saturated, Unsaturated, and Monounsaturated) in Cereal Products
			AOAC 996.06 Fat (Total, Saturated, and Unsaturated) in Foods
		Filtr	FSSAI Manual for analysis of cereal and cereal products Page No. 5
			AOAC 971.32 Light Filtr in Cereals (Whole Wheat)
		Filtr analysis	AOAC 969.41 Light Filtr in Alimentary Pastes
			AOAC 972.32 Light Filtr (Pre- and Post-Milling) in Flour (White)
		Fish allergen	EASI-CHE-SOP-258 Determination of Fish allergens by ELISA
		Foreign matter	EASI-CHE-SOP-209 Procedure for physical parameters in food
		Formic acid	EASI-CHE-SOP-133 Determination of Organic Acids by HPLC–UV
		Free and total Carnitine	ISO 23443, Infant formula and adult nutritionals — Determination of β -carotene, lycopene and lutein by reversed-phase ultra-high performance liquid chromatography (RP-UHPLC)

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		Free and total Choline	ISO 21468, Infant formula and adult nutritionals — Determination of free and total choline and free and total carnitine — Liquid chromatography tandem mass spectrometry (HPLC-MS/MS)
		Free and Total Gossypol	IS/ISO 6866 Animal feeding stuffs - Determination of free and total gossypol
		Fungal identification/ moulds	EASI-CHE-SOP-209 Procedure for physical parameters in food
		Gel length	EASI-CHE-SOP-209 Procedure for physical parameters in food
		Gluten	FSSAI Manual for analysis of cereal and cereal products Page No. 17
			IS 1009 (wheat flour) Maida for General Purposes
			IS 1155 ATTA - SPECIFICATION
		Gluten Allergens	EASI-MB-SOP-034 Determination of Gluten Allergens by ELISA
		Granularity	IS 1009 (wheat flour) Maida for General Purposes
			IS 1155 ATTA - SPECIFICATION
		Green Grains	ISO 7301 Rice — Specification
		Heat Damaged Kernels	EASI-CHE-SOP-209 Procedure for physical parameters in food
		Hectolitre Weight	IS 4333 P-3 Method of Analysis for Foodgrains - Part 3 : Determination of Bulk Density, Called Mass Per Hectolitre (Second Revision)
		Hydrogen cyanamide	EASI-CHE-SOP-66, DETERMINATION OF HCN IN FOOD AND FEEDS BY HPLC-FLD
		Immature Grains	ISO 7301 Rice — Specification
		Impurity as extraneous matter	EASI-CHE-SOP-209 Procedure for physical parameters in food
		Indigo Carmine	FSSAI Manual 8, HPLC-DAD

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		Inorganic Foreign Matter	ISO 7301 Rice — Specification
		Insect damaged kernels	EASI-CHE-SOP-209 Procedure for physical parameters in food
		Iodine	AOAC 2012.15 Total Iodine in Infant Formula and Adult/Pediatric Nutritional Formul
			JAOAC, Vol. 84(6) Determination of Iodine in Seafood by Inductively coupled plasma/Mass Spectrometry
		Isomaltose	EASI-CHE-SOP-237 Determination of Sugar Alcohol(D-Mannitol, Maltitol ,Xylitol, Isomaltose, Meso-Erythritol and Lactitol by HPLC
		Kesari Dal (Lathyrus Sativus)	FSSAI Manual for Cereal & cereal Products page No. 32
		KOH Solubility	The Journal of Applied Poultry Research
		Lactic acid	EASI-CHE-SOP-133 Determination of Organic Acids by HPLC–UV
		Lactitol	EASI-CHE-SOP-237 Determination of Sugar Alcohol(D-Mannitol, Maltitol ,Xylitol, Isomaltose, Meso-Erythritol and Lactitol by HPLC
		L-Ascorbyl palmitate, Propyl Gallate	EASI-CHE-SOP-55, DETERMINATION OF ANTIOXIDANTS (BHA, BHT, TBHQ, Propyl gallate and Ascorbyl palmitate) IN FOOD SAMPLES
		Length	ISO 7301 Rice — Specification
		Lutein	ISO 23443, Infant formula and adult nutritionals — Determination of β -carotene, lycopene and lutein by reversed-phase ultra-high performance liquid chromatography (RP-UHPLC)

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
		Maltitol	EASI-CHE-SOP-237 Determination of Sugar Alcohol(D-Mannitol, Maltitol ,Xylitol, Isomaltose, Meso-Erythritol and Lactitol by HPLC

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Accredited to ISO/IEC 17025:2017

Effective Date January 12, 2024

FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
Chemical continued	Cereals, pulses & Cereal Products & Bakery Products, Malted or Malt Based food, Starch and Its products continued	Microscopic Structure of Cereal Starches	FSSAI Manual for analysis of cereal and cereal products Page No. 36
		Milk Allergens	EASI-MB-SOP-038 Determination of Milk allergens by ELISA
		Moisture	AOAC 925.09 Solids (Total) and Loss on Drying (Moisture) in Flour
			AOAC 925.10 Solids (Total) and Loss on Drying (Moisture) in Flour
			IS 7874 : Part 1 Methods of tests for animal feeds and feeding stuffs: Part 1 General methods
			ISO 712 Cereals and cereal products — Determination of moisture content — Reference method
			FSSAI Manual for analysis of cereal and cereal products Page No. 13
			IS 4333 : Part 2 Methods of Analysis for Foodgrains Part 2 Determination of Moisture Content (Second Revision)
			AOAC 935.29 Loss on Drying (Moisture) in Malt
			IS 1158 Corn Flakes
			IS 1009 (wheat flour) Maida for General Purposes
			IS 1010 Suji or Rava (Semolina)
			IS 1155 ATTA - SPECIFICATION

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Monounsaturated fatty acids	AOAC 996.01 Fat (Total, Saturated, Unsaturated, and Monounsaturated) in Cereal Products
Mouth Feel	EASI-GEN-SOP-26 Procedure for Sensory Evaluation of Food samples
Mustard Allergens	EASI-MB-SOP-035 Determination of Mustard Allergens by ELISA
Natural Folates(5-Me THF)	AOAC 2013.13 Folate in Infant Formula and Adult/Pediatric Nutritional Formula
Neotame	EASI-CHE-SOP-222 Determination of Sweeteners by HPLC
Nitrogen Soluble Index- NSI	IS 7837 Edible Full-fat Soya Flour
Number of pieces	EASI-CHE-SOP-209 Procedure for physical parameters in food
Omega 3	AOAC 996.01 Fat (Total, Saturated, Unsaturated, and Monounsaturated) in Cereal Products EASI-CHE-SOP-166 DETERMINATION OF THE FATTY ACID PROFILE (SATURATED, UNSATURATED, TRANS FATTY ACIDS,Ω-FATTY ACIDS) BY GAS CHROMATOGRAPH
Omega 6	AOAC 996.01 Fat (Total, Saturated, Unsaturated, and Monounsaturated) in Cereal Products EASI-CHE-SOP-166 DETERMINATION OF THE FATTY ACID PROFILE (SATURATED, UNSATURATED, TRANS FATTY ACIDS,Ω-FATTY ACIDS) BY GAS CHROMATOGRAPH
Omega 9	AOAC 996.01 Fat (Total, Saturated, Unsaturated, and Monounsaturated) in Cereal Products

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	EASI-CHE-SOP-166 DETERMINATION OF THE FATTY ACID PROFILE (SATURATED, UNSATURATED, TRANS FATTY ACIDS,Ω-FATTY ACIDS) BY GAS CHROMATOGRAPH
Organic Foreign Matter	ISO 7301 Rice — Specification
Other Edible Grains	IS 4333 : Part 1 Methods Of Analysis For Foodgrains
Other seed	EASI-CHE-SOP-209 Procedure for physical parameters in food
Oxalic acid	EASI-CHE-SOP-133 Determination of Organic Acids by HPLC–UV
Paddy	EASI-CHE-SOP-209 Procedure for physical parameters in food
Paddy Grains	ISO 7301 Rice — Specification
Particle Size	IS 1010 Suji or Rava (Semolina)
PDI (Protein dispersion index)	AOCS Ba 10-65 Ash in Oilseed Cake and Meals
Peanut Allergens	EASI-MB-SOP-036 Determination of Peanut allergens by ELISA
pH	EASI-CHE-SOP-262 SOP for determination of pH AOAC 943.02 pH of Flour
Physical Purity (100- Extraneous matter)	EASI-CHE-SOP-209 Procedure for physical parameters in food
Phytic acid	J. Agric. Food Chem. 3.0
Polyphenols as Gallic Acid	ISO 14502 P-1,Determination of substances characteristic of green and black tea — Part 1: Content of total polyphenols in tea — Colorimetric method using Folin-Ciocalteu reagent
Polyunsaturated fatty acids	AOAC 996.01 Fat (Total, Saturated, Unsaturated, and Monounsaturated) in Cereal Products
Ponceau 4R	FSSAI Manual 8, HPLC-DAD

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Potassium benzoate as Benzoic acid	FSSAI Manual 8, Manual of Food Additives
Presence of mould	EASI-CHE-SOP-209 Procedure for physical parameters in food
Propionate As Propionic Acid	EASI-CHE-SOP-133 Determination of Organic Acids by HPLC-UV
Protein	FSSAI Manual for analysis of cereal and cereal products Page No. 19
	IS 7219 Method for determination of protein in foods and feeds
	AOAC 920.87 Protein (Total) in Flour
Purity (100-extraneous matter)	EASI-CHE-SOP-209 Procedure for physical parameters in food
Red Streaked Grains	IS 730 Specification for Hook Bolts for Corrugated Sheet Roofing
Refractions	FSSAI Manual for analysis of cereal and cereal products Page No. 03
	IS 4333 P-1 Methods of Analysis for Foodgrains Part 1 Refractions (Third Revision)
Rodent contamination	EASI-CHE-SOP-209 Procedure for physical parameters in food
Rodent hair and excreta	EASI-CHE-SOP-209 Procedure for physical parameters in food
Saccharin	FSSAI Lab manual 8 Page.65
Saponin Content	EASI-CHE-SOP-147 Determination of Saponin in food & food products
Saponins	EASI-CHE-SOP-147 Determination of Saponin in food & food products
Saturated fatty acids	AOAC 996.01 Fat (Total, Saturated, Unsaturated, and Monounsaturated) in Cereal Products
Saturated Fatty acids	AOAC 2012.13 Labeled Fatty Acids Content in Milk Products, Infant Formula, and Adult/Pediatric Nutritional Formula

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Sedimentation	IS 13864 Wheat-Determination of the Sedimentation Index - Zeleny Test (First Revision)
Sieve Analysis	ASTA method 10.0 Sieve Analysis
Sodium benzoate as Benzoic acid	FSSAI Manual 8, Manual of Food Additives
Soluble and Insoluble Dietary Fibre	AOAC 991.43 Total, Soluble, and Insoluble Dietary Fiber in Foods
Sorbic Acid (As Calcium, Sodium, Potassium Salt)	FSSAI Lab manual 8 Page. 106 by HPLC-UV
Sorbitol content	EASI-CHE-SOP-234, Determination of sorbitol and Xylose by HPLC
Soya Allergens	EASI-MB-SOP-037 Determination of Soya allergens by ELISA
Split Fruits	EASI-CHE-SOP-209 Procedure for physical parameters in food
Starch	IS 4706 P-2 Methods of tests for edible starches and starch products: Part 2 Chemical methods
Stones	EASI-CHE-SOP-209 Procedure for physical parameters in food
Sucralose	EASI-CHE-SOP-138, DETERMINATION OF SUCRALOSE BY HPLC
Sugar Profile-Fructose	AOAC 982.14 Glucose, Fructose, Sucrose, and Maltose in Presweetened Cereals
Sugar Profile-Glucose	AOAC 982.14 Glucose, Fructose, Sucrose, and Maltose in Presweetened Cereals
Sugar Profile-Lactose	AOAC 982.14 Glucose, Fructose, Sucrose, and Maltose in Presweetened Cereals
Sugar Profile-Maltose	AOAC 982.14 Glucose, Fructose, Sucrose, and Maltose in Presweetened Cereals
Sugar Profile-Sucrose	AOAC 982.14 Glucose, Fructose, Sucrose, and

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	Maltose in Presweetened Cereals
Sulphate	IS 2317 Method for gravimetric determination of sulphates
Sulphur Dioxide (SO ₂)	AOAC 990.28 Sulfites in Foods
Sunset Yellow	FSSAI Manual 8, HPLC-DAD
TALC	FSSAI Manual for analysis of cereal and cereal products Page No. 35
Tartrazine	EASI-CHE-SOP-105, Determination of Synthetic food colors in food and food products
TBHQ	FSSAI manual 8 Page. 106
	AOAC 983.15 Phenolic Antioxidants in Oils, Fats, and Butter Oil
Test for added Natural colours	FSSAI Manual for Food additives
Texture	EASI-GEN-SOP-26 Procedure for Sensory Evaluation of Food samples
Total Ash	FSSAI Manual for analysis of cereal and cereal products Page No. 14
	IS 1158 Corn Flakes
	IS 1009 (wheat flour) Maida for General Purposes
	IS 1010 Suji or Rava (Semolina)
	IS 1155 ATTA - SPECIFICATION
Total Dietary Fiber	AOAC 985.29 Total Dietary Fiber in Foods
	AOAC 991.43 Total, Soluble, and Insoluble Dietary Fiber in Foods
Total Dietary Fibre	AOAC 985.29 Total Dietary Fiber in Foods
Fat	AOAC 922.06 Fat in flour
Total Fat	AOAC 920.39 Fat (Crude) or Ether Extract in Animal Feed
Total Sugar	AOAC 945.66 Total reducing sugars
Total Sugar Alcohols(D-Mannitol, Maltitol, Xylitol, Isomaltose, Erythritol, lactitol)	EASI-CHE-SOP-237 Determination of Sugar Alcohol(D-Mannitol, Maltitol

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	,Xylitol, Isomaltose, Meso-Erythritol and Lactitol by HPLC
Trans fatty acids	AOAC 996.01 Fat (Total, Saturated, Unsaturated, and Monounsaturated) in Cereal Products
Unripe and marked fruits	EASI-CHE-SOP-209 Procedure for physical parameters in food
Urease Activity	IS 7835 Edible Medium-fat Soya Flour
Uric Acid	IS 4333 : Part 5 Methods of analysis for foodgrains: Part 5 Determination of uric acid
	FSSAI Manual for analysis of cereal and cereal products Page No. 09
Visual Inspection	EASI-GEN-SOP-26 Procedure for Sensory Evaluation of Food samples
Vitamin A	AOAC 2001.13 Vitamin A (Retinol) in Foods by Liquid Chromatography
Vitamin B1 (Thiamin)	BS EN 14122, Foodstuffs — Determination of vitamin B1 by HPLC
	AOAC 957.17 Thiamine (Vitamin B1)
Vitamin B1, B2, B6	AOAC 2015.14 Total Vitamins B1, B2, and B6 in Infant Formula and Related Nutritionals
Vitamin B1, B2, B3, B6	ISO 21470, Infant formula and adult nutritionals — Simultaneous determination of total vitamins B1, B2, B3 and B6 — Enzymatic digestion and LC-MS/MS
Vitamin B12	ISO 20634, Infant formula and adult nutritionals — Determination of vitamin B12 by reversed phase high performance liquid chromatography (RP-HPLC)
Vitamin B2 (Riboflavin)	BS EN 14152, Foodstuffs — Determination of vitamin B2 by HPLC
	AOAC 970.65 Riboflavin (Vitamin B2) in Foods and Vitamin Preparations
Vitamin C	EASI-CHE-SOP-112,

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	Determination of Vitamin C in Food, Feed, Nutraceutical and Premix Samples
Vitamin B3	BS EN 15652, Foodstuffs — Determination of niacin by HPLC
	EASI-CHE-SOP-154, DETERMINATION OF VITAMIN B3, B5, B7, B9 IN NUTRACEUTICALS AND COMPLEMENTARY FOOD PRODUCTS BY LC-MS/MS
Vitamin B5	EASI-CHE-SOP-154, DETERMINATION OF VITAMIN B3, B5, B7, B9 IN NUTRACEUTICALS AND COMPLEMENTARY FOOD PRODUCTS BY LC-MS/MS
	EASI-CHE-SOP-020, DETERMINATION OF PANTOTHENIC ACID (VITAMIN B5) IN FOOD, FEED, NUTRACEUTICALS AND PREMIXES
	ISO 20639, Infant formula and adult nutritionals — Determination of pantothenic acid by ultra high performance liquid chromatography and tandem mass spectrometry method (UHPLC-MS/MS)
Vitamin B6	BS EN 14164, Foodstuffs- Determination of vitamin B6 by HPLC
Vitamin B7	ISO 23305, Fortified milk powders, infant formula and adult nutritionals — Determination of total biotin by liquid chromatography coupled with immunoaffinity column clean-up extraction
Vitamin B7(Biotin)	EASI-CHE-SOP-70, DETERMINATION OF BIOTIN (VITAMIN B7) IN FOOD, FEED, NUTRACEUTICAL AND PREMIX SAMPLES
	EASI-CHE-SOP-154, DETERMINATION OF VITAMIN B3, B5, B7, B9 IN NUTRACEUTICALS AND

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	COMPLEMENTARY FOOD PRODUCTS BY LC-MS/MS
Vitamin B9	AOAC 2011.06, Total Folates in Infant Formula and Adult Nutr
	EASI-CHE-SOP-71, Determination of Folic Acid (Vitamin B9) in Food, Feed, Nutraceutical and Premix Samples
	EASI-CHE-SOP-154, DETERMINATION OF VITAMIN B3, B5, B7, B9 IN NUTRACEUTICALS AND COMPLEMENTARY FOOD PRODUCTS BY LC-MS/MS
Vitamin B9 (Folic acid)	AOAC 2013.13 Folate in Infant Formula and Adult/Pediatric Nutritional Formula
Vitamin C	AOAC 2012.21 Vitamin C in Infant Formula and Adult/Pediatric Nutritional Formula
Vitamin D	AOAC 2011.11 Vitamin D in Infant Formula and Adult/Pediatric Nutritional Formula
	ISO 20636 Infant formula and adult nutritionals — Determination of vitamin D by liquid chromatography-mass spectrometry
Vitamin D2	AOAC 2016.05 Analysis of Vitamin D2 and Vitamin D3 in Fortified Milk Powders, Infant Formulas, and Adult/Pediatric Nutritional Formulas
Vitamin D3	AOAC 2016.05 Analysis of Vitamin D2 and Vitamin D3 in Fortified Milk Powders, Infant Formulas, and Adult/Pediatric Nutritional Formulas
Vitamin E	JAOAC 2001.13 Determination of Vitamins A (Retinol) and E (alpha-Tocopherol) in Foods by Liquid Chromatography: Collaborative Study
Vitamin K	AOAC 999.15 AOAC Official Method 999.15 Vitamin K in

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		Milk and Infant Formulas	Liquid Chromatographic Method
	Vitamin K1	ISO 21446, Infant formula and adult nutritionals — Determination of trans and total (cis + trans) vitamin K1 content — Normal phase HPLC	
	Water Activity	EASI-CHE-SOP-215	Procedure for Water Activity
	weeviled grain	IS 4333 : Part 1 Methods of Analysis for Foodgrains Part 1 Refractions (Third Revision)	
	Weevilled Grains	EASI-CHE-SOP-209	Procedure for physical parameters in food
	Wet Gluten	IS 8162 Wheat flour - Method for determination of wet gluten	
	Width	ISO 7301 Rice — Specification	
	Xylitol	EASI-CHE-SOP-237	Determination of Sugar Alcohol(D-Mannitol, Maltitol ,Xylitol, Isomaltose, Meso-Erythritol and Lactitol by HPLC
	Yellow Grains	EASI-CHE-SOP-209	Procedure for physical parameters in food
Cocoa Based Products	Peanut Allergens	EASI-MB-SOP-036	Determination of Peanut allergens by ELISA
Fats, Oils and Fat Emulsions	Acesulfame	FSSAI Lab manual 8 Page. 65	
	Acetone Insoluble Matter	USP method	
	Acid Insoluble Ash	IS 6287 Methods of Sampling and Analysis for Sugar Confectionery	
		IS 12711 Bakery Products - Methods of Analysis	
	Acid Value	AOAC 940.28 Fatty Acids (Free) in Crude and Refined Oils	
		FSSAI 02.009 Determination of Acid Value	
		IS 548 P-1 METHOD OF SAMPLING AND TEST FOR OILS AND FATS PART I SAMPLING, PHYSICAL AND	

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	CHEMICAL TESTS SECTION 1 SAMPLING
	AOCS-Ja-4-46 Acetone- Insoluble Matter in Vegetable Lecithins
Acidity of Extracted Fat	IS 12711 Bakery Products - Methods of Analysis IS 6287 Methods of Sampling and Analysis for Sugar Confectionery
Alcoholic Acidity	IS 12711 Bakery Products - Methods of Analysis IS 1009 (wheat flour) Maida for General Purposes
Alcoholic Acidity (as H ₂ SO ₄) in 90 % alcohol	IS 12711 Bakery Products - Methods of Analysis
Allyl Iso Thiocyanate	IS 548 P-1 METHOD OF SAMPLING AND TEST FOR OILS AND FATS PART I SAMPLING, PHYSICAL AND CHEMICAL TESTS SECTION 1 SAMPLING
Almond Allergen	EASI-CHE-SOP-236 Determination of Almond allergens by ELISA
Animal fat	FSSAI 02.020 Test for presence of animal body fat in vegetable fat by microscopic examination of fat crystals
Anisidine Value	AOCS Cd 18-90 p-Anisidine Value
Aroma	EASI-GEN-SOP-26 Procedure for Sensory Evaluation of Food samples
Aspartame	FSSAI Lab manual 8 Page. 65
Azadirachtin	IS 14299 Neem Extract Concentrate Containing Azadirachtin
Bellier Test (Turbidity Temperature)	IS 548 P-1 METHOD OF SAMPLING AND TEST FOR OILS AND FATS PART I SAMPLING, PHYSICAL AND CHEMICAL TESTS SECTION 1 SAMPLING FSSAI 02.012 Bellier Test (Turbidity Temperature – acetic acid method) FSSAI Lab manual 8 Page. 13

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	Benzoic Acid/Benzoyl Peroxide	AOAC 994.11 Benzoic acid in orange juice
	Beta-sitosterol	AOAC 994.10 Cholesterol in Foods
	BHA	FSSAI manual 8 Page. 106
		AOAC 983.15 Phenolic Antioxidants in Oils, Fats, and Butter Oil
	BHT	FSSAI Lab manual 8 Page. 106
		AOAC 983.15 Phenolic Antioxidants in Oils, Fats, and Butter Oil
	Black Seeds	USP method
	Brilliant Blue	FSSAI Manual 8, HPLC-DAD
	Bulk Density	ASTA Method 25.0 Bulk Index/Bulk Density
	Butyro- Refractometer reading	FSSAI 02.003 Determination of Refractive Index
		IS 548 P-1 METHOD OF SAMPLING AND TEST FOR OILS AND FATS PART I SAMPLING, PHYSICAL AND CHEMICAL TESTS SECTION 1 SAMPLING
	Carbohydrates	AOAC 986.25 Proximate Analysis of Milk-Based Infant Formula By calculation/NIN method
	Carmoisine	FSSAI Manual 8, HPLC-DAD
	Carotenal, Methyl ester of Beta apo-8 carotenoic acid, Ethyl	FSSAI Manual for Food additives
	Cashew allergen	EASI-CHE-SOP-257 Determination of cashew allergens by ELISA
	Chloride	IS 11763 Cheese And Processed Cheese Products — Determination Of Chloride Content — Potentiometric Titration Method
		AOAC 2016.03 Chloride in Milk, Milk Powder, Whey Powder, Infant Formula, and Adult Nutritionals
	Cholesterol	AOAC 994.10 Cholesterol in Foods
		AOAC 976.26 Cholesterol in Multicomponent Foods
	Cloud Point	FSSAI 02.015 Determination

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		of Cloud Point of Palmolein (and test for presence of Palmolein in other oils)
	Cold Test	FSSAI 02.023 Test for Refined Winterized Salad Oil – Cold Test
	Colour (By Lovibond Tintometer)	FSSAI 02.005 Determination of Color
	Crude Fiber	IS 12711 Bakery Products - Methods of Analysis
	Crude Fibre	AOAC 962.09 Fiber (Crude) in Animal Feed and Pet Food
	Crustacean allergen	EASI-CHE-SOP-271 Determination of Crustaceans allergens by ELISA
	Description	EASI-GEN-SOP-26 Procedure for Sensory Evaluation of Food samples
	Detection of added colouring matter	IS 3507 Method Of Sampling And Test For Butter
	Detection of dissolved soap	IS 3508 Method Of Sampling And Test For Ghee
	Dietary Fiber	AOAC 985.29 Total Dietary Fiber in Foods
	Egg allergen	EASI-CHE-SOP-259 Determination of Egg white allergens by ELISA
	Energy	EASI-CHE-SOP-123 Procedure for calculation of Energy value
		NIN by Gopalan (by Calculation)
	Erythrosine	FSSAI Manual 8, HPLC-DAD
	Fast green	FSSAI Manual 8, HPLC-DAD
	Fat	IS 6287 Methods of Sampling and Analysis for Sugar Confectionery
		IS 12711 Bakery Products - Methods of Analysis
		IS 3507 Method Of Sampling And Test For Butter
	Fatty acid Profile	AOAC 996.01 Fat (Total, Saturated, Unsaturated, and Monounsaturated) in Cereal Products
	Fatty Acid Profile (Saturated Fatty Acids, Mono Unsaturated Fatty Acid, Poly Unsaturated	AOAC 996.01 Fat (Total, Saturated, Unsaturated, and Monounsaturated) in Cereal Products

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Fatty Acid and Trans Fatty Acid)	AOAC 996.06 Fat (Total, Saturated, and Unsaturated) in Foods
	EASI-CHE-SOP-166
	Determination of the fatty acid profile (Saturated, Unsaturated, trans fatty acids, and Ω -fatty acids) by GC
	1. Butyric acid ME C:4
	2. Caproic acid ME C:6
	3. Caprylic acid ME C:8
	4. Capric acid ME C:10
	5. Undecanoic acid ME
	6. Lauric acid ME C:12
	7. Tridecanoic acid ME C:13
	8. Myristic acid ME C:14
	9. Myristoleic acid ME
	10. Pentadecanoic acid ME C:15
	11. <i>cis</i> -10-Pentadecenoic acid ME
	12. Palmitic acid ME
	13. Palmitoleic acid ME
	14. Margaric acid ME
	15. Margoleic acid ME
	16. Stearic acid ME
	17. Elaidic acid ME
	18. Oleic acid ME
	19. Linolelaidic acid ME
	20. Linoleic acid ME
	21. Gama-Linolenic acid ME
	22. Linolenic acid
	23. Arachidic acid ME
	24. Eicosenoic acid ME
	25. Eicosadienoic acid ME
	26. Heneicosanoic acid ME
	27. Homo Gamma Linolenic acid ME
	28. Arachidonic acid
	29. Eicosatrienoic acid ME
	30. Behenic acid ME
	31. Erucic acid ME
	32. Eicosapentanoic acid ME
	33. Docosadienoic acid ME
	34. Tricosanoic acid ME
	35. Lignoceric acid ME
	36. Nervonic acid ME
	37. Docosahehexanoic acid ME
	38. Saturated Fatty acid
	39. Mono-unsaturated FA
	40. Poly-unsaturated FA
	41. Trans fatty acid

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	42. Total unsaturated fatty acid
	43. Omega-3
	44. Omega-6
	45. Omega-7
	46. Omega-9
	47. Omega-6/Omega-3
	48. Ratio of Linoleic to Linolenic
	AOAC 2012.13 Labeled Fatty Acids Content in Milk Products, Infant Formula, and Adult/Pediatric Nutritional Formula
Fatty Acid Profile (MUFA)	AOAC 996.01 Fat (Total, Saturated, Unsaturated, and Monounsaturated) in Cereal Products
Fatty Acid Profile (PUFA)	AOAC 996.01 Fat (Total, Saturated, Unsaturated, and Monounsaturated) in Cereal Products
Fatty Acid Profile (Trans Fat)	AOAC 996.01 Fat (Total, Saturated, Unsaturated, and Monounsaturated) in Cereal Products
Fatty Acid Profile - Saturated Fatty Acids	AOAC 996.06 Fat (Total, Saturated, and Unsaturated) in Foods
	AOAC 996.01 Fat (Total, Saturated, Unsaturated, and Monounsaturated) in Cereal Products
Fatty Acid Profile(Saturated Fatty Acid)	AOAC 996.01 Fat (Total, Saturated, Unsaturated, and Monounsaturated) in Cereal Products
Fatty Acid Profile-Mono Unsaturated Fatty Acid	ISO 5509 Animal and vegetable fats and oils — Preparation of methyl esters of fatty acids
	AOAC 996.01 Fat (Total, Saturated, Unsaturated, and Monounsaturated) in Cereal Products
	AOAC 996.06 Fat (Total, Saturated, and Unsaturated) in Foods
Fatty Acid Profile-Poly Unsaturated Fatty Acid	ISO 5509 Animal and vegetable fats and oils —

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		Preparation of methyl esters of fatty acids
		AOAC 996.01 Fat (Total, Saturated, Unsaturated, and Monounsaturated) in Cereal Products
		AOAC 996.06 Fat (Total, Saturated, and Unsaturated) in Foods
	Fatty Acid Profile-Trans Fatty Acid	ISO 5509 Animal and vegetable fats and oils — Preparation of methyl esters of fatty acids
		AOAC 996.01 Fat (Total, Saturated, Unsaturated, and Monounsaturated) in Cereal Products
		AOAC 996.06 Fat (Total, Saturated, and Unsaturated) in Foods
	Fish allergen	EASI-CHE-SOP-258 Determination of Fish allergens by ELISA
	Flash point	FSSAI 02.004 Determination of Flash Point: Pensky Martin Closed cup Method
	Foreign matter	EASI-GEN-SOP-26 Procedure for Sensory Evaluation of Food samples
		EASI-CHE-SOP-209 Procedure for physical parameters in food
	Free Fatty Acids	FSSAI 02.009 Determination of Acid Value
		AOAC 940.28 Fatty Acids (Free) in Crude and Refined Oils
	Gamma Oryzanol	EASI-CHE-SOP-136, DETERMINATION OF GAMMA-ORYZANOL BY HPLC- UV
	Hexane Insoluble Matter	USP method
	Hydrogen cyanamide	EASI-CHE-SOP-66, DETERMINATION OF HCN IN FOOD AND FEEDS BY HPLC-FLD
	Hydroxyl value	IS 548 P-1 METHOD OF SAMPLING AND TEST FOR OILS AND FATS PART 1 SAMPLING PHYSICAL AND

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	CHEMICAL TESTS SECTION 2 PHYSICAL AND CHEMICAL TESTS
Indigo Carmine	FSSAI Manual 8, HPLC-DAD
Insoluble impurities	IS 548 P-1 METHOD OF SAMPLING AND TEST FOR OILS AND FATS PART I SAMPLING, PHYSICAL AND CHEMICAL TESTS SECTION 1 SAMPLING
	IS 3508 Method Of Sampling And Test For Ghee
Iodine	AOAC 2012.15 Total Iodine in Infant Formula and Adult/Pediatric Nutritional Formul
	JAOAC, Vol. 84(6) Determination of Iodine in Seafood by Inductively coupled plasma/Mass Spectrometry
Iodine Value	FSSAI 02.010 Determination of Iodine Value
	IS 548 P-1 METHOD OF SAMPLING AND TEST FOR OILS AND FATS PART I SAMPLING, PHYSICAL AND CHEMICAL TESTS SECTION 1 SAMPLING
L-Ascorbyl palmitate, Propyl Gallate	EASI-CHE-SOP- 55, DETERMINATION OF ANTIOXIDANTS (BHA, BHT, TBHQ, Propyl gallate and Ascorbyl palmitate) IN FOOD SAMPLES
Mass Per Unit Volume (Or) Specific Gravity	FSSAI 02.002 Determination of Specific Gravity
	IS 548 P-1 METHOD OF SAMPLING AND TEST FOR OILS AND FATS PART I SAMPLING, PHYSICAL AND CHEMICAL TESTS SECTION 1 SAMPLING
Melting Point	FSSAI 02.006: Determination of Slip Melting Point of Fat
	IS 548 P-1 METHOD OF SAMPLING AND TEST FOR OILS AND FATS PART I SAMPLING, PHYSICAL AND

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		CHEMICAL TESTS SECTION 1 SAMPLING
	Milk Allergens	EASI-MB-SOP-038 Determination of Milk allergens by ELISA
	Moisture	IS 3507 Method Of Sampling And Test For Butter FSSAI 02.001 Determination of Moisture Content– air oven method IS 548 P-1 METHOD OF SAMPLING AND TEST FOR OILS AND FATS PART I SAMPLING, PHYSICAL AND CHEMICAL TESTS SECTION 1 SAMPLING
		AOAC 926.12 Moisture and Volatile matter in Oils and Fats
	Monounsaturated fatty acids	AOAC 996.01 Fat (Total, Saturated, Unsaturated, and Monounsaturated) in Cereal Products
	Mouth Feel	EASI-GEN-SOP-26 Procedure for Sensory Evaluation of Food samples
	Mustard Allergens	EASI-MB-SOP-035 Determination of Mustard Allergens by ELISA
	Omega 3	AOAC 996.01 Fat (Total, Saturated, Unsaturated, and Monounsaturated) in Cereal Products EASI-CHE-SOP-166 DETERMINATION OF THE FATTY ACID PROFILE (SATURATED, UNSATURATED, TRANS FATTY ACIDS,Ω-FATTY ACIDS) BY GAS CHROMATOGRAPH
	Omega 6	EASI-CHE-SOP-166 DETERMINATION OF THE FATTY ACID PROFILE (SATURATED, UNSATURATED, TRANS FATTY ACIDS,Ω-FATTY ACIDS) BY GAS CHROMATOGRAPH AOAC 996.01 Fat (Total, Saturated, Unsaturated, and

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	Monounsaturated) in Cereal Products
Omega 9	AOAC 996.01 Fat (Total, Saturated, Unsaturated, and Monounsaturated) in Cereal Products
	EASI-CHE-SOP-166 DETERMINATION OF THE FATTY ACID PROFILE (SATURATED, UNSATURATED, TRANS FATTY ACIDS,Ω-FATTY ACIDS) BY GAS CHROMATOGRAPH
Peanut Allergens	EASI-MB-SOP-036 Determination of Peanut allergens by ELISA
Peroxide Value	AOAC 965.33 Peroxide value of Oils & Fats
	FSSAI 02.042 Method for presence of rancidity
	IS 548 P-1 METHOD OF SAMPLING AND TEST FOR OILS AND FATS PART I SAMPLING, PHYSICAL AND CHEMICAL TESTS SECTION 1 SAMPLING
	AOCS-Ja-8-87 Peroxide Value of Lecithin
pH	IS 3507 Method Of Sampling And Test For Butter
	EASI-CHE-SOP-262 SOP for determination of pH
Phosphatides (as acetone insolubles)	AOCS-Ja-4-46 Acetone-Insoluble Matter in Vegetable Lecithins
Physical Purity (100-Extraneous matter)	EASI-CHE-SOP-209 Procedure for physical parameters in food
Polenske Value	IS 548 P-1 METHOD OF SAMPLING AND TEST FOR OILS AND FATS PART I SAMPLING, PHYSICAL AND CHEMICAL TESTS SECTION 1 SAMPLING
	FSSAI 02.011 Determination of Reichert-Meissl And Polenske Value
Polybromide test	FSSAI 02.018 Polybromide test for Mustard Oil

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Polyphenols as Gallic Acid	ISO 14502 P-1, Determination of substances characteristic of green and black tea — Part 1: Content of total polyphenols in tea — Colorimetric method using Folin-Ciocalteu reagent
Polyunsaturated fatty acids	AOAC 996.01 Fat (Total, Saturated, Unsaturated, and Monounsaturated) in Cereal Products
Ponceau 4R	FSSAI Manual 8, HPLC-DAD
Presence of Argemone Oil	IS 548 P-2 Methods of sampling and test for oils and fats: Part II Purity tests FSSAI 02.032 Test for presence of Argemone Oil
Presence of Castor Oil	IS 548 P-2 Methods of sampling and test for oils and fats: Part II Purity tests FSSAI 02.031 Test for presence of Castor Oil
Presence of Cottonseed Oil	IS 548 P-2 Methods of sampling and test for oils and fats: Part II Purity tests FSSAI 02.014 Determination of presence of Cottonseed Oil (Halphen's test)
Presence of Karanja Oil	IS 548 P-2 Methods of sampling and test for oils and fats: Part II Purity tests FSSAI 02.033 Determination of presence of Karanja (Pongamia glabra) Oil
Presence of Mineral Oil	IS 548 P-2 Methods of sampling and test for oils and fats: Part II Purity tests FSSAI 02.029 Test for presence of Mineral Oil – Holde's Method
Presence of Rice Bran oil, Linseed oil, Kusum oil, neem oil, Groundnut oil	IS 548 P-2 Methods of sampling and test for oils and fats: Part II Purity tests
Presence of Rice Bran oil, Linseed oil, Tea seed oil, semi-siccative oil, Olive residue oil	FSSAI 02.016 Test for presence of Rice Bran Oil , FSSAI 02.017 Test for presence of Linseed oil (Hexabromide Test) , FSSAI 02.024 Test for Tea seed Oil in Olive Oil , FSSAI 02.026

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	Test for Semi-Siccative Oil in Olive Oil ,FSSAI 02.025 Test for presence of Olive Residue (Pomace) Oil in Olive Oil
Presence of Sesame Oil	IS 548 P-2 Methods of sampling and test for oils and fats: Part II Purity tests FSSAI 02.013 Test for presence of Sesame Oil (Baudouin test)
Propionate As Propionic Acid	EASI-CHE-SOP-133 Determination of Organic Acids by HPLC–UV
Protein	IS 7219 Method for determination of protein in foods and feeds
Rancidity	FSSAI 02.042 Method for presence of rancidity
Refractive Index	FSSAI 02.003 Determination of Refractive Index IS 548 P-1 METHOD OF SAMPLING AND TEST FOR OILS AND FATS PART I SAMPLING, PHYSICAL AND CHEMICAL TESTS SECTION 1 SAMPLING
Reichert missile value	IS 548 P-1 METHOD OF SAMPLING AND TEST FOR OILS AND FATS PART I SAMPLING, PHYSICAL AND CHEMICAL TESTS SECTION 1 SAMPLING FSSAI 02.011 Determination of Reichert-Meissl And Polenske Value
Saccharin	FSSAI Lab manual 8 Page.65
Salt	IS 3507 Method Of Sampling And Test For Butter
Saponification Value	FSSAI 02.007 Determination of Saponification Value
Saponins	EASI-CHE-SOP-147 Determination of Saponin in food & food products
Saturated fatty acids	AOAC 996.01 Fat (Total, Saturated, Unsaturated, and Monounsaturated) in Cereal Products AOAC 2012.13 Labeled Fatty Acids Content in Milk Products,

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	Infant Formula, and Adult/Pediatric Nutritional Formula
Separated water	EASI-GEN-SOP-26 Procedure for Sensory Evaluation of Food samples
Sieve Analysis	ASTA method 10.0 Sieve Analysis
Smoke point	EASI-CHE-SOP-216 Procedure for Smoke point
Soluble and Insoluble Dietary Fibre	AOAC 991.43 Total, Soluble, and Insoluble Dietary Fiber in Foods
Sorbic Acid (As Calcium, Sodium, Potassium Salt)	FSSAI Lab manual 8 Page. 106 by HPLC-UV
Soya Allergens	EASI-MB-SOP-037 Determination of Soya allergens by ELISA
Stigmasterol	AOAC 994.10 Cholesterol in Foods
Sucrose	IS 12711 Bakery Products - Methods of Analysis
Sugar Profile-Fructose	AOAC 982.14 Glucose, Fructose, Sucrose, and Maltose in Presweetened Cereals
Sugar Profile-Glucose	AOAC 982.14 Glucose, Fructose, Sucrose, and Maltose in Presweetened Cereals
Sugar Profile-Lactose	AOAC 982.14 Glucose, Fructose, Sucrose, and Maltose in Presweetened Cereals
Sugar Profile-Maltose	AOAC 982.14 Glucose, Fructose, Sucrose, and Maltose in Presweetened Cereals
Sugar Profile-Sucrose	AOAC 982.14 Glucose, Fructose, Sucrose, and Maltose in Presweetened Cereals
Sulphur Dioxide (SO ₂)	AOAC 990.28 Sulfites in Foods
Sunset Yellow	FSSAI Manual 8, HPLC-DAD
Tartrazine	EASI-CHE-SOP- 105, Determination of Synthetic food colors in food and food products
TBHQ	FSSAI manual 8 Page. 106

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	AOAC 983.15 Phenolic Antioxidants in Oils, Fats, and Butter Oil
Texture	EASI-GEN-SOP-26 Procedure for Sensory Evaluation of Food samples
Titrateable acidity	IS 3507 Method Of Sampling And Test For Butter
Tocopherol profiling	ISO 9936 Animal and vegetable fats and oils — Determination of tocopherol and tocotrienol contents by high-performance liquid chromatography
Toluene Insoluble Matter	FAO monograph
Total Ash	IS 6287 Methods of Sampling and Analysis for Sugar Confectionery
Total Dietary Fibre	AOAC 985.29 Total Dietary Fiber in Foods
Fat	AOAC 922.06 Fat in flour
Total Fat	AOAC 920.39 Fat (Crude) or Ether Extract in Animal Feed
Total Polar compounds	AOAC 982.27 Polar Compounds in Frying Fats
Total Solid	IS 12711 Bakery Products - Methods of Analysis
Total Sugar	AOAC 945.66 Total reducing sugars
Trans fatty acids	AOAC 996.01 Fat (Total, Saturated, Unsaturated, and Monounsaturated) in Cereal Products
Un-saponifiable Matter	FSSAI 02.008 Determination of Unsaponifiable Matter
	IS 548 P-1 METHOD OF SAMPLING AND TEST FOR OILS AND FATS PART I SAMPLING, PHYSICAL AND CHEMICAL TESTS SECTION 1 SAMPLING
Visual Inspection	EASI-GEN-SOP-26 Procedure for Sensory Evaluation of Food samples
Vitamin A	AOAC 2001.13 Vitamin A (Retinol) in Foods by Liquid Chromatography
Vitamin C	AOAC 2012.21 Vitamin C in Infant Formula and Adult/Pediatric Nutritional Formula

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	Vitamin D2	AOAC 2016.05 Analysis of Vitamin D2 and Vitamin D3 in Fortified Milk Powders, Infant Formulas, and Adult/Pediatric Nutritional Formulas
	Vitamin D3	AOAC 2002.05 Cholecalciferol (Vitamin D3) in Selected Foods
Fish and Fish Products (Shrimp, Crustaceans and Cephalopods)	Acid insoluble ash	FSSAI Manual for analysis of meat and meat products & fish and fish products page no. 61
	Acidity	FSSAI Manual for analysis of meat and meat products & fish and fish products page no. 62
	Fat	AOAC 948.15 Fat (Crude) in Seafood
	Formaldehyde	ISO 17226, Chemical determination of formaldehyde content — Part 1: Method using high-performance liquid chromatography
	Formaline	EASI-CHE-SOP-140, DETERMINATION OF FORMALIN BY HPLC – UV/DAD
	Glutamic Acid	EASI-CHE-SOP-025, Determination of Amino acids by HPLC-FLD after derivatization with AQC
	Moisture	FSSAI Manual for analysis of meat and meat products & fish and fish products page no. 59
	Peanut Allergens	EASI-MB-SOP-036 Determination of Peanut allergens by ELISA
	pH	AOAC 943.02 pH of Flour
	Protein	AOAC 940.25 Nitrogen (Total) in Seafood
		IS 7219 Method for determination of protein in foods and feeds
	Salt (as NaCl)	FSSAI Manual for analysis of meat and meat products & fish and fish products page no. 60
	Sodium Chloride	AOAC 937.09 Salt (Chlorine as Sodium Chloride) in Seafood

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Sulphur Dioxide	AOAC 990.28 Sulfites in Foods
Total Ash	AOAC 938.08 Ash of Seafood
Total Phosphate (as PO ₄)	AOAC 995.11 Phosphorus (Total) in Foods
Total Solids	AOAC 952.08 Solids (Total) in Seafood
Total Volatile Basic Nitrogen (TVBN)	FSSAI Manual for analysis of meat and meat products & fish and fish products page no. 51

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Accredited to ISO/IEC 17025:2017

Effective Date January 12, 2024

FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
Chemical continued	Food & Feed Products (Food & Agriculture Products, Marine & Aquaculture, Animal Food & Feed, Nutraceutical, Health Supplement, Fortified Food, Processed Food, Proprietary Food, Food Additives, Edible Colors, Flavours, Milk And Milk Products, Infant Formula, Follow Up Formula, Spices And Its Products, Cereals And Its Products, Bakery And Confectionary, Fruits And Vegetables And Its Products, Nut And Nut Products, Tea, Coffee And Cocoa Products	Methyl Mercury	EASI-CHE-SOP-249 Determination Of Methylmercury In Food & Agricultural Products, Animal Food & Feeds, Ayush Products, Nutraceuticals & Functional Foods, Nutritional Supplements And Marine/Aqua Culture Food Products By Liquid Chromatography With Inductively Coupled Plasma - Mass Spectrometer (LC-ICPMS)
	Food & Feed Products (Food & Agriculture products, Marine & Aquaculture, Animal Food &	Acesulfame	FSSAI Lab manual 8 Page. 65
		Acesulfame K	EASI-CHE-SOP-222 Determination of Sweeteners by HPLC
		Acetic acid	EASI-CHE-SOP-133

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Feed, Nutritional & Nutraceutical, Health Supplement, Fortified Food, Processed Food, Proprietary Food Additives, Edible Color & Flavour & Preservatives), swabs (only for allergens)		Determination of Organic Acids by HPLC-UV
	Acetone Insoluble Matter	USP method
	Acid Insoluble Ash	FSSAI Manual for analysis of cereal and cereal products Page no. 16
		IS 1011 Biscuits
		IS 6287 Methods of Sampling and Analysis for Sugar Confectionery
		IS 12711 Bakery Products - Methods of Analysis
		IS 1163 Chocolates
		IS 7874 : Part 1 Methods of tests for animal feeds and feeding stuffs: Part 1 General methods
		IS 1158 Corn Flakes
		IS 1485 Macaroni, Spaghetti, Vermicelli and Egg Noodles
		IS 1009 (wheat flour) Maida for General Purposes
		IS 1155 ATTA - SPECIFICATION
		IS 1010 Suji or Rava (Semolina)
		IS 3077 ROASTED AND GROUND COFFEE - SPECIFICATION (THIRD REVISION OF IS 3077)
		IS 1164 Cocoa Powder
		AOAC 920.93 Ash of Roasted Coffee
		IS 1797 Spices and Condiments - Methods of Test (Third Revision)
		FSSAI 10.007
		IS 14433 (P-1) Infant Milk Substitutes - Specification
		IS 4684 Edible Groundnut Flour (Expeller Pressed)
		IS 15271 Namkeen
		AOAC 920.100 Ash in Tea
		IS 13857 ea - Determination of acid-insoluble ash
	Acid Value	AOAC 940.28 Fatty Acids (Free) in Crude and Refined Oils

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	FSSAI 02.009 Determination of Acid Value
	IS 548 P-1 METHOD OF SAMPLING AND TEST FOR OILS AND FATS PART I SAMPLING, PHYSICAL AND CHEMICAL TESTS SECTION 1 SAMPLING
	AOCS-Ja-4-46 Acetone-Insoluble Matter in Vegetable Lecithins
Acid value of extracted fat	IS 15271 Namkeen
Acidity	IS 4941 Extracted Honey
	AOAC 942.15 Acidity (titratable) of Fruit Products
Acidity (As Lactic Acid)	AOAC 920.124 Acidity of Cheese
Acidity of extracted fat	IS 1011 Biscuits
	IS 12711 Bakery Products
	IS 6287 Methods of Sampling and Analysis for Sugar Confectionery
	IS 4684 Edible Groundnut Flour (Expeller Pressed)
Added Colouring Matter	FSSAI Manual 8 page no. 81
Added Sugar	IS 4079 Canned Rasogolla
	AOAC 945.66 Total reducing sugars
Added Vitamin D	ISO 14892, Dried skimmed milk — Determination of vitamin D content using high-performance liquid chromatography
ADF	Ankom method
ADL	Ankom method
Adulteration of vegetable oil (Vegetable oil, Sunflower oil, Groundnut oil, coconut oil and Soyabean oil)	FSSAI Method
Alkalinity of soluble ash	IS 3077 ROASTED AND GROUND COFFEE IS 1164 Cocoa Powder
Alcohol Content	IS 3752 Alcoholic drinks - Methods of test
Alcohol Soluble Extract	IS 1797 Spices and Condiments FSSAI 10.010

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Alcoholic Acidity	FSSAI Manual for analysis of cereal and cereal products page no. 18 IS 12711 Bakery Products IS 1009 (wheat flour) Maida for General Purposes
Alcoholic Acidity (as H ₂ SO ₄) in 90 % alcohol	IS 1009 (wheat flour) Maida for General Purposes IS 1010 Suji or Rava (Semolina) IS 1155 ATTA - SPECIFICATION IS 12711 Bakery Products IS 1155 ATTA - SPECIFICATION
Aldehydes	FSSAI 13.018 IS 3752 Alcoholic drinks - Methods of test AOAC 950.23 Benzaldehyde in Nonalcoholic Beverages
Alkali spread value	EASI-CHE-SOP-209 Procedure for physical parameters in food
Alkalinity as Na ₂ CO ₃	IS 7224 Iodized salt, vacuum evaporated iodized salt and refined iodized salt IS 253 Specification for Common Salt
Alkalinity of Ash	IFU Method. 10 Determination of Ash alkalinity
Alkalinity of Ash (ml of 1M HCl/100 g)	AOAC 920.93 Ash of Roasted Coffee
Alkalinity of Water Soluble Ash	AOAC 920.100 Ash in Tea
Alkalinity of water soluble ash	IS 13856 ea - Determination of alkalinity of water-soluble ash
Allyl Iso Thiocyanate	IS 548 P-1 METHOD OF SAMPLING AND TEST FOR OILS AND FATS PART I SAMPLING, PHYSICAL AND CHEMICAL TESTS SECTION 1 SAMPLING
Almond Allergen	EASI-CHE-SOP-236 Determination of Almond allergens by ELISA
Amino Acids (Aspartic Acid, Serine, Glutamic Acid, Glycine, Histidine, Arginine, Threonine, Alanine, Proline, Cystine,	EASI-CHE-SOP-025, Determination of Amino acids by HPLC-FLD after derivatization with AQC

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	Tyrosine, Valine, Methionine, Lysine, Iso-Leucine, Leucine, Phenyl Alanine, Tryptophan)	
	Total Amino Acids in Infant Formulas and Adult by HPLC FLD-L-Amino acids	AOAC 2018.06
	Ammoniacum Resin	ASTA Method 14.1 Extraneous Matter in Spices (Excluding Black and White Pepper) FSSAI Manual method
	Ammonical Nitrogen	IS 4467 Caramel
	Amylopectin	Internal Method by calculation
	Amylose	ISO 6647-1: Determination of amylose content
	Animal fat	FSSAI 02.020
	Anisidine Value	AOCS Cd 18-90 p-Anisidine Value
	Anthocyanin pigment	AOAC 2005.02 Total Monomeric Anthocyanin Pigment Content of Fruit Juices, Beverages, Natural Colorants, and Wines- pH Differential Method
	Antimony	EASI-CHE-SOP-044- Determination of Metals and Minerals by Inductively Coupled Plasma- Mass Spectrometer (ICP-MS), Inductively Coupled Plasma- Optical Emission Spectrometer (ICP-OES) and Atomic Absorption Spectrometer in Food Stuffs
	Any Other Foreign Resin	ASTA Method 14.1 Extraneous Matter in Spices (Excluding Black and White Pepper)
	Arachidonic Acid (ARA)	AOAC 996.01 Fat (Total, Saturated, Unsaturated, and Monounsaturated) in Cereal Products
	Argemone seeds	ASTA Method 14.1 Extraneous Matter in Spices (Excluding Black and White Pepper)

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Argemone seeds	FSSAI 10.015 Detection of argemone seeds in mustard
Aroma	EASI-GEN-SOP-26 Procedure for Sensory Evaluation of Food samples
ascorbyl Esters as Ascorbyl Palmitate	EASI-CHE-SOP-55, DETERMINATION OF ANTIOXIDANTS (BHA, BHT, TBHQ, Propyl gallate and Ascorbyl palmitate) IN FOOD SAMPLES
Ash	IS 7874 : Part 1 Methods of tests for animal feeds and feeding stuffs IFU Method 09 Determination of ash AOAC 962.09 Fiber (Crude) in Animal Feed and Pet Food AOAC 935.42 Ash of Cheese FSSAI Manual for analysis of cereal and cereal products page no. 14 AOAC 920.108 Ash of Cream IS 1479 (P-2) Method of test for for dairy industry, Part 2: Chemical analysis of milk AOAC 945.46 Ash of Milk AOAC 920.115 Sweet condensed milk AOAC 950.49 Ash of Nuts and nut Products
Ash Content	IS 3752 Alcoholic drinks AOAC 900.02 Ash of Sugars and Syrups AOAC 962.09 Fiber (Crude) in Animal Feed and Pet Food
Aspartame	FSSAI manual method 8 FSSAI Lab manual 8 Page. 65
Available Carbohydrate	EASI-CHE-SOP-211 Procedure for available carbohydrate
Average Weight	EASI-CHE-SOP-209 Procedure for physical parameters in food
Azadirachtin	IS 14299 Neem Extract Concentrate Containing Azadirachtin
B Juncea	ASTA Method 14.1 Extraneous Matter in Spices

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	(Excluding Black and White Pepper)
B Nigra	ASTA Method 14.1 Extraneous Matter in Spices (Excluding Black and White Pepper)
Bacosides	USP 35
Bellier Test (Turbidity Temperature)	IS 548 P-1 METHOD OF SAMPLING AND TEST FOR OILS AND FATS PART I SAMPLING, PHYSICAL AND CHEMICAL TESTS SECTION 1 SAMPLING
	FSSAI Manual method
Benzoic Acid	FSSAI lab manual 8 Page. 73
Benzoic Acid/Benzoyl Peroxide	FSSAI Lab manual 8 Page. 13
	AOAC 994.11 Benzoic acid in orange juice
Berberine	EASI-CHE-SOP-223, DETERMINATION OF BERBERINE CONTENT BY HPLC
Beta Carotene	BS EN 12823 P-2, Foodstuffs - Determination of vitamin A by high performance liquid chromatography - Part 2: Measurement of p- carotene ISO 23443, Infant formula and adult nutritionals — Determination of β -carotene, lycopene and lutein by reversed-phase ultra-high performance liquid chromatography (RP-UHPLC)
Beta-sitosterol	AOAC 994.10 Cholesterol in Foods
BHA	FSSAI manual 8 Page. 106 AOAC 983.15 Phenolic Antioxidants in Oils, Fats, and Butter Oil
BHT	FSSAI Lab manual 8 Page. 106 AOAC 983.15 Phenolic Antioxidants in Oils, Fats, and Butter Oil
Bitterness	EASI-CHE-SOP-173 Determination of total bitterness in plants & by products

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Bixin	EASI-CHE-SOP-113- Determination of Illegal Dyes in Food & Agricultural and Feed Products by LC-MS/MS
Black Seeds	USP method
Bostwick Viscosity	EASI-CHE-SOP-119 Use and maintenance of Bostwick Consistometer.
Boswellia	EASI-CHE-SOP-235 Determination of Boswellic Acid by HPLC-UV
Boswellic acid	EASI-CHE-SOP-172 Determination of Gymnemic Acid in Gymnemia Extract
Breadth	ISO 7301 Rice — Specification
Brilliant Blue	FSSAI Manual 8, HPLC-DAD
Broken Fragments	ISO 7301 Rice — Specification
Bulk Density	ASTA Method 25.0 Bulk Index/Bulk Density FSSAI Manual Method
Butyro- Refractometer reading	IS 548 P-1 METHOD OF SAMPLING AND TEST FOR OILS AND FATS PART I SAMPLING, PHYSICAL AND CHEMICAL TESTS SECTION 1 SAMPLING
Caffeine	FSSAI lab manual 8 Page. 73 ISO 14502 P-2, Determination of substances characteristic of green and black tea — Part 2: Content of catechins in green tea — Method using high- performance liquid chromatography IS 16028, Coffee and Coffee Products - Determination of the Caffeine Content Using High Performance Liquid Chromatography (HPLC)
Caffeine & Catechins	ISO 14502 P-2, Determination of substances characteristic of green and black tea — Part 2: Content of catechins in green tea — Method using high- performance liquid chromatography
Calcium carbide (as Acetylene)	EASI-CHE-SOP-186

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	Determination of acetylene in artificial ripening of fruit
Calcium Oxide	EASI-CHE-SOP-44 Determination Of Metals And Minerals In Food & Agricultural Products, Animal Food & Feeds, Ayush Products, Nutraceuticals & Functional Foods, Nutritional Supplements And Marine/Aquaculture Food Products By Inductively Coupled Plasma- Mass Spectrometer (ICP-MS), Inductively Coupled Plasma-Optical Emission Spectrometer (ICP-OES), And Atomic Absorption Spectrometer (AAS) - Total heavy metals
Capsaicin profile (Nordihydrocapsaicin, capsaicin and Dihydrocapsaicin)	ASTA 21.3 Pungency Of Capsicums And Their Oleoresins (HPLC Method)
Caramel	AOAC 948.07 Caramel in Wines
Carbohydrate	AOAC 986.25 Proximate Analysis of Milk-Based Infant Formula By Calculation/NIN Method /IS 1656
Carbohydrates	EASI-CHE-SOP-123 Procedure for calculation of Energy value By calculation/NIN method
Carbon-Dioxide	AOAC 960.20 Carbon Dioxide in wines
Carmoisine	FSSAI Manual 8, HPLC-DAD
Carnitine	AOAC 2015.10 Free and Total Choline and Carnitine in Infant Formula and Adult/Pediatric Nutritional Formula EASI-CHE-SOP-201, Determination of Choline and Carnitine (Free and total) in Infant Formula and Adult/Pediatric Nutritional Formula by LC-MS/MS
Carotenal, Methyl ester of Beta apo-8 carotenoic acid, Ethyl	FSSAI Manual for Food additives

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	Carotene(Natural extract),Annatto extract (Bixin), Beta apo-8	FSSAI Manual for Food additives
	Casein	FSSAI Method
	Cashew allergen	EASI-CHE-SOP-257 Determination of cashew allergens by ELISA
	Chalky Grains	ISO 7301 Rice — Specification
	Chloride	AOAC 928.06 Chlorine (Total) in Fruit Products
	Chloride	AOAC 928.04 Chloride in Plants
		IS 11763 Cheese And Processed Cheese Products — Determination Of Chloride Content — Potentiometric Titration Method
		AOAC 2016.03 Chloride in Milk, Milk Powder, Whey Powder, Infant Formula, and Adult Nutritionals
	Chlorophyll	EASI-CHE-SOP-169 Determination of Total Chlorophyll in Plant and its products
	Cholesterol	AOAC 994.10 Cholesterol in Foods
		AOAC 935.39 Baked Products
		AOAC 976.26 Cholesterol in Multicomponent Foods
	Choline	AOAC 2015.10 Free and Total Choline and Carnitine in Infant Formula and Adult/Pediatric Nutritional Formula
		EASI-CHE-SOP-201,Determination of Choline and Carnitine (Free and total) in Infant Formula and Adult/Pediatric Nutritional Formula by LC-MS/MS
		IS 5949,Methods for volumetric determination of calcium and magnesium using EDTA
		AOAC 999.14 Choline in Infant Formula and Milk
	Chromate Test	IS 3576 SPICES AND CONDIMENTS TURMERIC WHOLE AND GROUND SPECIFICATION

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Chrysodine G	EASI-CHE-SOP-113- Determination of Illegal Dyes in Food & Agricultural and Feed Products by LC-MS/MS
Citric acid	EASI-CHE-SOP-133 Determination of Organic Acids by HPLC-UV
Cloud Point	FSSAI Manual method
Coal Tar Dyes	FSSAI Manual 8, page number 82
Cocoa butter	IS 1164 Cocoa Powder
Cocoa Solids	IS 1163 Chocolates
Cold Test	FSSAI Manual method
Cold Water Extract	FSSAI 10.009
Cold Water Soluble Extract	IS 1797 Spices and Condiments
Colophony Resin	FSSAI Manual method
Color Value	ASTA Method 20.1 Extractable Color in Capsicums and Their Oleoresins Fssai Manual method
Coloring Matter	DGHS lab Manual 8 Page.77
Colour (By Lovibond Tintometer)	FSSAI 02.005
Colour intensity	IS 4467 Caramel
Colours(Plain), Caramel colours(Ammonium Sulphite process)	FSSAI Manual 8, page number 81
Conductivity Ash	IS 15279 Sugar and Sugar Products
Consistency	EASI-CHE-SOP-119 Use and maintenance of Bostwick Consistometer.
Container fill	FSSAI Manual for analysis of fruit and vegetable products Page no. 1
Cooked rice ratio	EASI-CHE-SOP-209 Procedure for physical parameters in food
Crude Fat	IS 7874 : Part 1 Methods of tests for animal feeds and feeding stuffs: Part 1 General methods
Crude Fiber	IS 12711 Bakery Products - Methods of Analysis AOAC 962.09 Fiber (Crude) in Animal Feed and Pet Food

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	IS 1155 ATTA - SPECIFICATION
	IS 10226 Method for determination of crude fibre content: Part 1 General method
	AOAC 920.169 Fiber (Crude) in Spices
	AOAC 935.53 Fiber (Crude) in Nuts and Nut Products
	AOAC 920.102 Fibre (Crude) in Tea
Crude Fibre	FSSAI Manual for analysis of cereal and cereal products pagae no. 23
	IS 1158 Corn Flakes
	IS 1164 Cocoa Powder
	IS 1797 Spices and Condiments - Methods of Test (Third Revision)
Crude Protein	AOAC 984.13 Protein (Crude) in Animal Feed and Pet Food
	IS 7874 : Part 1 Methods of tests for animal feeds and feeding stuffs: Part 1 General methods
	IS 7219 Method for determination of protein in foods and feeds
Crustacean allergen	EASI-CHE-SOP-271 Determination of Crustaceans allergens by ELISA
Curcumin	ASTA Method 18.0 Curcumin Content of Turmeric Spice and Oleoresins
Curcumin Content	FSSAI 10.03
	IS 10925 Specification for Turmeric Oleoresin
Curcuminoids	EASI-CHE-SOP-103, Determination of Total curcuminoids in Turmeric and Turmeric products
Cut & broken	EASI-CHE-SOP-209 Procedure for physical parameters in food
Cyanocobalamin	AOAC 952.20 Cobalamin (Vitamin B12 Activity) in Vitamin Preparations
	AOAC 2011.09 Vitamin B12

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		in Infant Formula and Adult Nutritionals
		JAOAC Vol. 95, No. 4 Determination of Vitamins A (Retinol) and E (alpha-Tocopherol)
	Cyanuric Acid	EASI-CHE-SOP-037 Determination of Melamine and Cyanuric Acid in Milk, Milk Products Products, Cereals and their products, Fruit & Vegetables and their products and other agricultural products by LC MS-MS
	Damaged/Discolored/defective	EASI-CHE-SOP-209 Procedure for physical parameters in food
	Dead Insects or living insect	EASI-CHE-SOP-209 Procedure for physical parameters in food
	Defective Seeds	EASI-CHE-SOP-209 Procedure for physical parameters in food
	Defects	EASI-CHE-SOP-209 Procedure for physical parameters in food FSSAI 10.005
	Density @ 20 °C	IS 2404 Specification for Turmeric Oleoresin
	Description	EASI-GEN-SOP-26 Procedure for Sensory Evaluation of Food samples
	Detection of added colouring matter	IS 3507 Method Of Sampling And Test For Butter
	Detection of dissolved soap	IS 3508 Method Of Sampling And Test For Ghee
	Determination of Ferrocyanide	IS 7224 Iodized salt, vacuum evaporated iodized salt and refined iodized salt
		IS 253 Specification for Common Salt
	Determination of Grade	IS 498 Grading for Vacuum Pan (Plantation White and Refined) Sugar
	Determination of Percentage of Light Berries	ASTA Method 14.0 Light Berries and Extraneous Matter in Black and White Pepper
	DHA	AOAC 996.01 Fat (Total, Saturated, Unsaturated, and Monounsaturated) in Cereal Products

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Dietary fiber	AOAC 985.29 Total Dietary Fiber in Foods AOAC 991.43 Total, Soluble, and Insoluble Dietary Fiber in Foods
Dietary Folate equivalent (DFE) ³ , (As folic acid)	AOAC 2013.13 Folate in Infant Formula and Adult/Pediatric Nutritional Formula
Dispersibility	EASI-CHE-SOP-214 Procedure for Physical parameter of milk powder
Dissolved Polyphenol Content	ISO 14502 P-1, Determination of substances characteristic of green and black tea — Part 1: Content of total polyphenols in tea — Colorimetric method using Folin-Ciocalteu reagent
Dissolved Soluble Solids	ISO 9768 Tea — Determination of water extract
D-Mannitol	EASI-CHE-SOP-237 Determination of Sugar Alcohol(D-Mannitol, Maltitol, Xylitol, Isomaltose, Meso-Erythritol and Lactitol by HPLC
Drained & Net Weight	FSSAI Manual for analysis of fruit and vegetable products page no. 3
Drained Weight	IS 2860 Methods of sampling and test for processed fruits and vegetables
Drained weight & Net Weight	AOAC 953.15 Drained weight of Frozen fruits
Drained/Net Weight	IS 2860 Methods of sampling and test for processed fruits and vegetables
Edible Seeds Other Than Fennel	ASTA Method 14.1 Extraneous Matter in Spices (Excluding Black and White Pepper)
Egg allergen	EASI-CHE-SOP-259 Determination of Egg white allergens by ELISA
Electrical conductivity	Methods of the International Honey Commission
Ellagic acid	EASI-CHE-SOP-057 Determination of Ellagic acid samples
Elongation	ISO 7301 Rice — Specification

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Empty and Malformed Capsules By Count	ASTA Method 14.1 Extraneous Matter in Spices (Excluding Black and White Pepper)
Energy	EASI-CHE-SOP-123 Procedure for calculation of Energy value NIN by Gopalan (by Calculation)
Epitinosporide	EASI-CHE-SOP-149 Determination of guduchi biomarker (EPI- TINOSPORIDE) in beverage and plant extracts by HPLC- UV
Equivalent dextrose (ED)	IS 873 Liquid Glucose IS:873 Liquid Glucose
Ergot	FSSAI Manual for analysis of cereal and cereal products Page no. 10
Erythritol	EASI-CHE-SOP-237 Determination of Sugar Alcohol(D-Mannitol, Maltitol ,Xylitol, Isomaltose, Meso- Erythritol and Lactitol by HPLC
Erythrosine	FSSAI Manual 8, HPLC-DAD
Essential Oil Content	AOAC 968.20 Oil (Recoverable) in Fruits & Fruit products
Ester of Beta apo-8 carotenoic acid, Canthaxanthin, Caramel	FSSAI Manual for Food additives
Esters	FSSAI 13.010 IS 3752 Alcoholic drinks - Methods of test AOAC 950.22 Esters in Nonalcoholic Beverages
Ethanol	EASI-CHE-SOP-031 Determination of Residual Solvents in Food and Plant Materials by GC MSD with Head Space Sampler IFU method
Ethanol Content	FSSAI Manual Method
Ether Extract	AOAC 925.18 Petroleum Ether extract of Tea
Ethyl alcohol content	FSSAI 13.001

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Ethyl Carbamate (Urethane)	EASI-CHE-SOP-114 Determination of ethyl carbamate (urethane) in alcoholic drinks and beverages By GC-MSD
Excreta	EASI-CHE-SOP-209 Procedure for physical parameters in food
Extracts	FSSAI Manual method
Extraneous Matter	ISO 7301 Rice — Specification
	IS 1797 Spices and Condiments
	FSSAI 10.026
	FSSAI 10.002
	FSSAI Manual 10
Extraneous Matter and Other Refractions	FSSAI 10.005
Fast green	FSSAI Manual 8, HPLC-DAD
Fat	IS 6287 Methods of Sampling and Analysis for Sugar Confectionery
	IS 12711 Bakery Products - Methods of Analysis
	IS 7874 Methods of tests for animal feeds and feeding stuffs: Part 1 General methods
	AOAC 925.12 FAT in Macaroni Products
	AOAC 920.85 Fat (Crude) or Ether Extract in Flour
	IS 3507 Method Of Sampling And Test For Butter
	AOAC 922.06 Fat in flour
	IS 2785 Natural Cheese (Hard Variety), Processed Cheese, Processed Cheese Spread and Soft Cheese
	AOAC 933.05 Fat in Cheese
	IS 2802 Ice-cream
	AOAC 920.111 Fat in cream
	FSSAI Manual Method
	AOAC 932.06 Fat in Dried Milk
	AOAC 920.115 Sweet condensed milk
	AOAC 989.05 Fat in Milk

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	AOAC 948.22 Fat (Crude) IN Nut & Nut Products
	AOAC 925.32 Fat in Eggs
Fatty acid Profile	AOAC 996.01 Fat (Total, Saturated, Unsaturated, and Monounsaturated) in Cereal Products
	EASI-CHE-SOP-264 Determination of Fatty acid and Trans fat
Fatty Acid Profile (Saturated Fatty Acids, Mono Unsaturated Fatty Acid, Poly Unsaturated Fatty Acid and Trans Fatty Acid)	AOAC 996.01 Fat (Total, Saturated, Unsaturated, and Monounsaturated) in Cereal Products
	AOAC 996.06 Fat (Total, Saturated, and Unsaturated) in Foods
	EASI-CHE-SOP-166 DETERMINATION OF THE FATTY ACID PROFILE (SATURATED, UNSATURATED, TRANS FATTY ACIDS,Ω-FATTY ACIDS) BY GAS CHROMATOGRAPH
	AOAC 2012.13 Labeled Fatty Acids Content in Milk Products, Infant Formula, and Adult/Pediatric Nutritional Formula
Fatty Acid Profile (MUFA)	AOAC 996.01 Fat (Total, Saturated, Unsaturated, and Monounsaturated) in Cereal Products
Fatty Acid Profile (PUFA)	AOAC 996.01 Fat (Total, Saturated, Unsaturated, and Monounsaturated) in Cereal Products
Fatty Acid Profile (Saturated)	AOAC 996.01 Fat (Total, Saturated, Unsaturated, and Monounsaturated) in Cereal Products
Fatty Acid Profile (Trans Fat)	AOAC 996.01 Fat (Total, Saturated, Unsaturated, and Monounsaturated) in Cereal Products
Fatty Acid Profile - Saturated Fatty Acids	AOAC 996.06 Fat (Total, Saturated, and Unsaturated) in Foods

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	AOAC 996.01 Fat (Total, Saturated, Unsaturated, and Monounsaturated) in Cereal Products
Fatty Acid Profile(Saturated Fatty Acid)	AOAC 996.01 Fat (Total, Saturated, Unsaturated, and Monounsaturated) in Cereal Products
Fatty Acid Profile-Mono Unsaturated Fatty Acid	ISO 5509 Animal and vegetable fats and oils — Preparation of methyl esters of fatty acids
	AOAC 996.01 Fat (Total, Saturated, Unsaturated, and Monounsaturated) in Cereal Products
	AOAC 996.06 Fat (Total, Saturated, and Unsaturated) in Foods
Fatty Acid Profile-Poly Unsaturated Fatty Acid	ISO 5509 Animal and vegetable fats and oils — Preparation of methyl esters of fatty acids
	AOAC 996.01 Fat (Total, Saturated, Unsaturated, and Monounsaturated) in Cereal Products
	AOAC 996.06 Fat (Total, Saturated, and Unsaturated) in Foods
Fatty Acid Profile-Trans Fatty Acid	ISO 5509 Animal and vegetable fats and oils — Preparation of methyl esters of fatty acids
	AOAC 996.01 Fat (Total, Saturated, Unsaturated, and Monounsaturated) in Cereal Products
	AOAC 996.06 Fat (Total, Saturated, and Unsaturated) in Foods
Fiehe's Test	IS 4941 Extracted Honey
Filth	FSSAI manual for analysis of cereal and cereal products page no. 5
	AOAC 971.32 Light Filth in Cereals (Whole Wheat)
	AOAC 993.26 Light Filth in Whole Wheat Flour
Filth analysis	AOAC 969.41 Light Filth in Alimentary Pastes

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	AOAC 972.32 Light Filth (Pre- and Post-Milling) in Flour (White)
	AOAC 975.48 Heavy and Light Filth in Spices
	AOAC 965.40 Filth in Spices
	AOAC 971.35 Light Filth in Nutmeg (Reconditioned)
Fish allergen	EASI-CHE-SOP-258 Determination of Fish allergens by ELISA
Fixed Acidity	IS 3752 Alcoholic drinks - Methods of test
Flake thickness	EASI-CHE-SOP-209 Procedure for physical parameters in food
Flash point	FSSAI Manual-Oil & Fat
Flavanoid	EASI-CHE-SOP-170 Determination of Flavenoids in Plant and Plant products
Floral waste	IS 5453 (P-2) Spices- Saffron (Crocus Sativus L.) Part 2 Test Methods FSSAI 10.002
Fluoride	EASI-CHE-SOP-178 Procedure for determination of fluoride in food and related matrix
Foreign matter	EASI-CHE-SOP-209 Procedure for physical parameters in food
Formal Number	IFU Rev. 2005 Method. 30 Determination of formol Number
Formic acid	EASI-CHE-SOP-133 Determination of Organic Acids by HPLC–UV
Free acid	FSSAI Method
Free acidity milli equivalents acid/1000g	AOAC 962.19 Acidity (Free, Lcatone and Total) in Honey
Free and total Carnitine	ISO 23443, Infant formula and adult nutritionals — Determination of β -carotene, lycopene and lutein by reversed-phase ultra-high performance liquid chromatography (RP-UHPLC)
	ISO 21468, Infant formula and adult nutritionals — Determination of free and total

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	choline and free and total carnitine — Liquid chromatography tandem mass spectrometry (HPLC-MS/MS)
Free and total Choline	ISO 21468, Infant formula and adult nutritionals — Determination of free and total choline and free and total carnitine — Liquid chromatography tandem mass spectrometry (HPLC-MS/MS)
Free and Total Gossypol	IS/ISO 6866 Animal feeding stuffs - Determination of free and total gossypol
Free Fatty Acids	FSSAI 02.009 Determination of Acid Value
Free Fatty Acids	AOAC 940.28 Fatty Acids (Free) in Crude and Refined Oils
Free from Chicory	EASI-CHE-SOP-209 Procedure for physical parameters in food
Fructose	AOAC 935.63 Fructose in Sugars and Syrups
Fructose-Glucose Ratio	IS 4941 Extracted Honey
Fulvic acid	EASI-CHE-SOP-175 Determination of Fulvic Acid in Herbal and Herbal Products
Fungal identification/ moulds	EASI-CHE-SOP-209 Procedure for physical parameters in food
Furfural	FSSAI Manual method
	IS 3752 Alcoholic drinks - Methods of test
	AOAC 960.16 Furfural in Distilled Liquors
Galbanum Resin	ASTA Method 14.1 Extraneous Matter in Spices (Excluding Black and White Pepper)
Galbnum Resin	FSSAI Manual method
Gallic acid	EASI-CHE-SOP-127, DETERMINATION OF GALLIC ACID BY HPLC
	EASI-CHE-SOP-148, DETERMINATION OF GALLIC ACID IN BEVERAGE AND PLANT EXTRACTS BY HPLC
Gamma Oryzanol	EASI-CHE-SOP-136, DETERMINATION OF

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	GAMMA-ORYZANOL BY HPLC- UV
Garcinia	EASI-CHE-SOP-54, Determination of Assay in Garcinia extract samples
Gel length	EASI-CHE-SOP-209 Procedure for physical parameters in food
Gingerol	EASI-CHE-SOP-76, Determination of total Gingerols in Gingene (OLNP-06) and Ginger products by HPLC-UV/DAD
Gingerols and Shagaols	FSSAI Manual on spices and condiments
Glucose	AOAC 935.62 Glucose in Sugars and Syrups
Gluten	FSSAI Manual Method
	IS 1009 (wheat flour) Maida for General Purposes
	IS 1155 ATTA - SPECIFICATION
	EASI-MB-SOP-034 Determination of Gluten Allergens by ELISA
Gluten Allergens	EASI-MB-SOP-034 Determination of Gluten Allergens by ELISA
Grain test	EASI-CHE-SOP-214 Procedure for Physical parameter of milk powder
Granularity	IS 1009 (wheat flour) Maida for General Purposes
	IS 1155 ATTA - SPECIFICATION
Green Grains	ISO 7301 Rice — Specification
Gum Base Content	IS 6747 Chewing Gum — Specification (Second Revision)
Gymnemic acid	EASI-CHE-SOP-172 Determination of Gymnemic Acid in Gymnemia Extract
Headless Cloves	ASTA Method 14.1 Extraneous Matter in Spices (Excluding Black and White Pepper)
	FSSAI 10.005

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	EASI-CHE-SOP-209 Procedure for physical parameters in food
Heat Damaged Kernels	EASI-CHE-SOP-209 Procedure for physical parameters in food
Hectolitre Weight	IS 4333 P-3 Methods of Analysis for Foodgrains Part 3 Determination of Hectolitre Weight
Hexane Insoluble Matter	USP method
Higher alcohols	FSSAI 13.001
Higher Alcohols as Amyl Alcohol	IS 3752 Alcoholic drinks - Methods of test
HMF	IFU Rev. 2005 Method. 69
	AOAC 980.23 Hydroxymethyl Furfural in Honey
	IS 4941: 2008/IFU 69 Extracted Honey
Humic acid	ISO 5073 Brown coals and lignites — Determination of humic acids
Hydrogen cyanamide	EASI-CHE-SOP- 66, DETERMINATION OF HCN IN FOOD AND FEEDS BY HPLC-FLD
Hydrogen Peroxide	FSSAI Method
Hydroxyl value	IS 548 P-1 METHOD OF SAMPLING AND TEST FOR OILS AND FATS PART I SAMPLING, PHYSICAL AND CHEMICAL TESTS SECTION 1 SAMPLING
ICUMSA Colour	IS 15279 Sugar and Sugar Products - Methods of Test
Identification Test	FSSAI 10.025
	IS 5453 (P-2) Spices- Saffron (Crocus Sativus L.) Part 2 Test Methods
Immature and Shrivelled Capsules	ASTA Method 14.1 Extraneous Matter in Spices (Excluding Black and White Pepper)
	EASI-CHE-SOP-209 Procedure for physical parameters in food
	FSSAI 10.005
Immature Grains	ISO 7301 Rice — Specification

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Impurity as extraneous matter	EASI-CHE-SOP-209 Procedure for physical parameters in food FSSAI 10.005
Indigo Carmine	FSSAI Manual 8, HPLC-DAD
Infused Leaf	EASI-CHE-SOP-209 Procedure for physical parameters in food
Inorganic Foreign Matter	ISO 7301 Rice — Specification
Inositol	GB 5413.25: 2010, Method 2
	EASI-CHE-SOP-050 Determination of inositol in infant formula by GC-FID
Insect damaged kernels	EASI-CHE-SOP-209 Procedure for physical parameters in food FSSAI 10.005
Insect Damaged Matter	ASTA Method 14.1 Extraneous Matter in Spices (Excluding Black and White Pepper)
Insect Fragments	USP method
Insolubility Index	IS 12759 Dried Milk and Dried Milk Products — Determination of Insolubility Index (First Revision) EASI-CHE-SOP-214 Procedure for Physical parameter of milk powder
Insoluble impurities	IS 548 P-1 METHOD OF SAMPLING AND TEST FOR OILS AND FATS PART I SAMPLING, PHYSICAL AND CHEMICAL TESTS SECTION 1 SAMPLING IS 3508 Method Of Sampling And Test For Ghee
Insoluble Matter	IS 15279 Sugar and Sugar Products - Methods of Test
Iodine	AOAC 2012.15 Total Iodine in Infant Formula and Adult/Pediatric Nutritional Formul JAOAC, Vol. 84(6) Determination of Iodine in Seafood by Inductively coupled plasma/Mass Spectrometry

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	Clause A.2 of IS 7224 Iodized salt, vacuum evaporated iodized salt and refined iodized salt
	ISO 20647 Infant formula and adult nutritionals — Determination of total iodine — Inductively coupled plasma mass spectrometry (ICP-MS)
Iodine Content	IS 7224 Iodized salt, vacuum evaporated iodized salt and refined iodized salt
	AOAC 925.56 Iodine in iodized salt
Iodine Value	FSSAI Manual Method
	IS 548 P-1 METHOD OF SAMPLING AND TEST FOR OILS AND FATS PART I SAMPLING, PHYSICAL AND CHEMICAL TESTS SECTION 1 SAMPLING
Iron by UV	IS 14433 Infant Milk Substitute
Iron Filling	IS 3633 Black Tea
Isomaltose	EASI-CHE-SOP-237 Determination of Sugar Alcohol(D-Mannitol, Maltitol, Xylitol, Isomaltose, Meso-Erythritol and Lactitol by HPLC
Kesari Dal (Lathyrus Sativus)	FSSAI Manual for Cereal & cereal Products
Khokar Cloves	ASTA Method 14.1 Extraneous Matter in Spices (Excluding Black and White Pepper)
KOH Solubility	The Journal of Applied Poultry Research
Lactic acid	EASI-CHE-SOP-133 Determination of Organic Acids by HPLC–UV
Lactitol	EASI-CHE-SOP-237 Determination of Sugar Alcohol(D-Mannitol, Maltitol, Xylitol, Isomaltose, Meso-Erythritol and Lactitol by HPLC
Lactose	AOAC 920.110 Lactose in Cream

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		AOAC 982.14 Glucose, Fructose, Sucrose, and Maltose in Presweetened Cereals
		AOAC 920.115 Sweet condensed milk
	Lactose content	FSSAI Method
	L-Ascorbyl palmitate, Propyl Gallate	EASI-CHE-SOP-55, DETERMINATION OF ANTIOXIDANTS (BHA, BHT, TBHQ, Propyl gallate and Ascorbyl palmitate) IN FOOD SAMPLES
	L-Carnitine	AOAC 2012.17, Free and Total Carnitine in Infant and Adult/Pediatric Nutritional Formulas by Liquid Chromatography/Tandem Mass Spectrometry
	Length	ISO 7301 Rice — Specification
		EASI-CHE-SOP-209 Procedure for physical parameters in food

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Accredited to ISO/IEC 17025:2017

Effective Date January 12, 2024

FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
Chemical continued	Food & Feed Products (Food & Agriculture products, Marine & Aquaculture, Animal Food & Feed, Nutritional & Nutraceutical, Health Supplement, Fortified Food, Processed Food, Proprietary Food Additives, Edible Color & Flavour & Preservatives), swabs (only for allergens) continued	Light Berries	FSSAI 10.005
		Light Extraneous matter	USP method
		Linolenic Acid	AOAC 996.01 Fat (Total, Saturated, Unsaturated, and Monounsaturated) in Cereal Products
		LOD/Moisture	AOAC 925.19 Moisture in Tea
		LOD/Moisture	IS 13853 Tea - Determination of loss in mass at 103 degree celcius
		Loss on Drying	AOAC 926.08 Loss on drying (Moisture) in Cheese
			AOAC 920.116 Moisture in Butter
			IS 15279 SUGAR AND SUGAR PRODUCTS
		Lutein	USP 35
			ISO 23443, Infant formula and adult nutritionals — Determination of β -carotene, lycopene and lutein by reversed-phase ultra-high performance liquid chromatography (RP-UHPLC)
			AOAC 2017.04 cis- and trans- Lutein, cis- and trans- β - Carotene, and cis- and trans- Lycopene in Infant, Pediatric, and Adult Nutritionals
		Lycopene	EASI-CHE-SOP-174 Determination of Total Lycopene in Fruit and Vegetable Products
		Mace in Nutmeg	FSSAI 10.002 Determination of Extraneous Matter and

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	Other Refractions in Whole Spices
Maltitol	EASI-CHE-SOP-237 Determination of Sugar Alcohol(D-Mannitol, Maltitol ,Xylitol, Isomaltose, Meso-Erythritol and Lactitol by HPLC FSSAI Manual Method
Mass Per Unit Volume (Or) Specific Gravity	IS 548 P-1 METHOD OF SAMPLING AND TEST FOR OILS AND FATS PART I SAMPLING, PHYSICAL AND CHEMICAL TESTS SECTION 1 SAMPLING
Melting Point	FSSAI Manual Method
	IS 548 P-1 METHOD OF SAMPLING AND TEST FOR OILS AND FATS PART I SAMPLING, PHYSICAL AND CHEMICAL TESTS SECTION 1 SAMPLING
Metanil Yellow	EASI-CHE-SOP-113- Determination of Illegal Dyes in Food & Agricultural and Feed Products by LC-MS/MS
Methanol Content	IS 3752 Alcoholic Drinks- Method of test
Methyl alcohol	FSSAI 13.028
Methylene Chloride Extract	AOAC 940.29 Methylene Chloride Extract (Volatile and Nonvolatile) of Spices
Microscopic Structure of Cereal Starches	FSSAI Manual Method
Milk Allergens	EASI-MB-SOP-038 Determination of Milk allergens by ELISA
Milk Fat	IS 1163 Chocolates
	IS 11721 Dried Milk and Dried milk products - Determination of Fat Content - Gravimetric Method (Reference Method)
Milk protein* in milk solidsnot fat,	FSSAI Method
Milk Solid Not Fat	AOAC 990.21 Solids-Not-Fat in Milk
Milk Solids(non-fat)	IS 12299 Dairy Whitener - Specification First Revision

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	Mineral Impurities	FSSAI Manual Method
	Mineral Oil	FSSAI 10.023
	Mineral Pigment	ASTA Method 14.1 Extraneous Matter in Spices (Excluding Black and White Pepper)
	Mixed tocopherols concentrate Alpha- tocopherol	REF.,J AOAC 2001.13 Vitamin A (Retinol) in Foods
	Moisture	FSSAI Manual for Cereal & cereal Products page no. 8
		IS 1011 Biscuits
		IS 6287 Methods of Sampling and Analysis for Sugar Confectionery
		IS 12711 Bakery Products - Methods of Analysis
		IS 6747 Chewing Gum — Specification (Second Revision)
		IS 6287 Methods of Sampling and Analysis for Sugar Confectionery
		IS 1163 Chocolates
		AOAC 925.09 Solids (Total) and Loss on Drying (Moisture) in Flour
		AOAC 925.10 Solids (Total) and Loss on Drying (Moisture) in Flour
		IS 7874 : Part 1 Methods of tests for animal feeds and feeding stuffs: Part 1 General methods
		ISO 712 Cereals and cereal products — Determination of moisture content — Reference method
		IS 4333 : Part 2 Methods of Analysis for Foodgrains Part 2 Determination of Moisture Content (Second Revision)
		IS 1158 Corn Flakes
		IS 1485 Macaroni, Spaghetti, Vermicelli and Egg Noodles
		IS 1009 (wheat flour) Maida for General Purposes
		IS 1155 ATTA - SPECIFICATION

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	IS 1010 Suji or Rava (Semolina)
	IS 2791 SOLUBLE COFFEE POWDER - SPECIFICATION (FOURTH REVISION OF IS 2791)
	IS 1164 Cocoa Powder
	AOAC 979.12 Moisture (loss on Drying) in Roasted Coffee
	AOAC 968.11 Moisture (Loss on dring) in Roasted Coffee
	IS 3077 ROASTED AND GROUND COFFEE
	IS 3507 Method Of Sampling And Test For Butter
	IS 548 P-1 METHOD OF SAMPLING AND TEST FOR OILS AND FATS PART I SAMPLING, PHYSICAL AND CHEMICAL TESTS SECTION 1 SAMPLING
	AOAC 926.12 Moisture and Volatile matter in Oils and Fats
	AOAC 920.151 Solids (Total) in Fruits and Fruits Products
	FSSAI 10.005
	FSSAI 10.003
	ASTA 2.0 Moisture (Distillation Method)
	IS 4941 Extracted Honey
	AOAC 969.38 Moisture in Honey
	ISO 1442 Meat and meat products — Determination of moisture content (Reference method)
	IS 2785 Natural Cheese (Hard Variety), Processed Cheese, Processed Cheese Spread and Soft Cheese
	IS 16072 Determination of Moisture Content in Milk Powder and Similar Products (Routine Method)
	AOAC 927.05 Moisture in Dried Milk
	IS 1656 Infant Food — Milk-Cereal Based Complementary Foods — Specification

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		AOAC 934.06 Moisture in Dried Fruits
		AOAC 925.40 Moisture in Nut and Nut products
		AOAC 935.29 Loss on Drying (Moisture) in Malt
		IS 15271 Namkeen
	Moisture and Volatile Matter	IS 5453 (P-2) Spices- Saffron (Crocus Sativus L.) Part 2 Test Methods FSSAI 10.027
	Moisture Content	IS 7224 Iodized salt, vacuum evaporated iodized salt and refined iodized salt IS 253 Specification for Common Salt AOAC 941.11 Moisture in Spices AOAC 986.21 Moisture in Spices IS 1797 Spices and Condiments - Methods of Test (Third Revision)
	Monounsaturated fatty acids	AOAC 996.01 Fat (Total, Saturated, Unsaturated, and Monounsaturated) in Cereal Products
	Mouth Feel	EASI-GEN-SOP-26 Procedure for Sensory Evaluation of Food samples
	Mustard Allergens	EASI-MB-SOP-035 Determination of Mustard Allergens by ELISA
	Natural Folates (5-Me THF)	AOAC 2013.13 Folate in Infant Formula and Adult/Pediatric Nutritional Formula
	NDF	Ankom method
	Neotame	EASI-CHE-SOP-222 Determination of Sweeteners by HPLC
	Net weight	EASI-CHE-SOP-209 Procedure for physical parameters in food
	Neutralizers	FSSAI Manual for analysis of milk and milk products page no. 22
	Nitrate	AOAC 993.03 Nitrate in Baby foods

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	Nitrite	AOAC 973.31 Nitrite in Cured Meat
	Nitrogen	IS 1155 ATTA - SPECIFICATION
		AOAC 920.165 Nitrogen in Spices
		AOAC 920.109 Nitrogen (Total) in Cream
		FSSAI Manual Method
		IS 1479 Methods of Test for Dairy Industry Part 1 Rapid Examination of Milk (First Revision)
		AOAC 991.20 Nitrogen (Total) in Milk
	Nitrogen Soluble Index- NSI	IS 7837 Edible Full-fat Soya Flour
	Non Fat Milk Solids	IS 1163 Chocolates
		FSSAI Manual Method
	Non Protein nitrogen	FSSAI Manual Method
		IS 1479 Methods of Test for Dairy Industry Part 1 Rapid Examination of Milk (First Revision)
	Non Volatile Ether Extract	FSSAI 10.012
		IS 1797 Spices and Condiments - Methods of Test (Third Revision)
		AOAC 920.172 Ether extract of Prepared Mustard
	Number of pieces	EASI-CHE-SOP-209 Procedure for physical parameters in food
	Nutmeg in Mace	ASTA Method 14.1 Extraneous Matter in Spices (Excluding Black and White Pepper)
	Oil Orange SS	EASI-CHE-SOP-113- Determination of Illegal Dyes in Food & Agricultural and Feed Products by LC-MS/MS
	Oil Soluble Color	FSSAI Manual Method
	Omega 3	AOAC 996.01 Fat (Total, Saturated, Unsaturated, and Monounsaturated) in Cereal Products
		EASI-CHE-SOP-166 DETERMINATION OF THE FATTY ACID PROFILE (SATURATED,

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	UNSATURATED, TRANS FATTY ACIDS,Ω-FATTY ACIDS) BY GAS CHROMATOGRAPH
Omega 6	AOAC 996.01 Fat (Total, Saturated, Unsaturated, and Monounsaturated) in Cereal Products
	EASI-CHE-SOP-166 DETERMINATION OF THE FATTY ACID PROFILE (SATURATED, UNSATURATED, TRANS FATTY ACIDS,Ω-FATTY ACIDS) BY GAS CHROMATOGRAPH
Omega 9	AOAC 996.01 Fat (Total, Saturated, Unsaturated, and Monounsaturated) in Cereal Products
	EASI-CHE-SOP-166 DETERMINATION OF THE FATTY ACID PROFILE (SATURATED, UNSATURATED, TRANS FATTY ACIDS,Ω-FATTY ACIDS) BY GAS CHROMATOGRAPH
Optical Density @660nm	IS 4941 Extracted Honey
Orange II Sodium Salt	EASI-CHE-SOP-113- Determination of Illegal Dyes in Food & Agricultural and Feed Products by LC-MS/MS
Organic Foreign Matter	ISO 7301 Rice — Specification
Other Edible Grains	IS 4333 : Part 1 Methods of Analysis for Foodgrains
Other seed	EASI-CHE-SOP-209 Procedure for physical parameters in food
Oxalic acid	EASI-CHE-SOP-133 Determination of Organic Acids by HPLC–UV
Paddy	EASI-CHE-SOP-209 Procedure for physical parameters in food
Paddy Grains	ISO 7301 Rice — Specification
Papaya seeds	FSSAI Manual Method
Particle Size	IS 1010 Suji or Rava (Semolina)

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PDI (Protein dispersion index)	AOCS Ba 10-65 Ash in Oilseed Cake and Meals
Peanut Allergens	EASI-MB-SOP-036 Determination of Peanut allergens by ELISA
Pectin	IFU Rev. 2005 Method. 26 Pectin
	EASI-CHE-SOP-167 Determination of Pectin by UV- VIS Spectrophotometer in Fruit and Fruit Products
Permanganate reaction time	IS 6613 Neutral Spirit for Alcoholic Drinks
Peroxide Value	AOAC 965.33 Peroxide value of Oils & Fats
	FSSAI Manual Method
	IS 548 P-1 METHOD OF SAMPLING AND TEST FOR OILS AND FATS PART I SAMPLING, PHYSICAL AND CHEMICAL TESTS SECTION 1 SAMPLING
	AOCS-Ja-8-87 Peroxide Value of Lecithin
	IS 15271 Namkeen
Petroleum ether extract	IS 3077 ROASTED AND GROUND COFFEE
pH	IS 3865 Beer
	AOAC 943.02 pH of Flour
	IS 3507 Method Of Sampling And Test For Butter
	IFU Method 11 Determination of pH Value
	FSSAI Manual Method
	IS 1479 Methods of Test for Dairy Industry Part 1 Rapid Examination of Milk (First Revision)
	EASI-CHE-SOP-262 SOP for determination of pH
	FSSAI lab Manual 5
Phosphatides (as acetone insolubles)	AOCS-Ja-4-46 Acetone- Insoluble Matter in Vegetable Lecithins
P-Hydroxybenzyl Iso-Thiocyanate (M/M) on Dry Basis	ASTA Method 14.1 Extraneous Matter in Spices (Excluding Black and White Pepper)

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Physical Purity (100-Extraneous matter)	EASI-CHE-SOP-209 Procedure for physical parameters in food
Phytic acid	J. Agric. Food Chem. 3.0
Picrocrocin, Safranal and Crocin	FSSAI 10.028 IS 5453 (P-2) Spices- Saffron (Crocus Sativus L.) Part 2 Test Methods
Pin heads or broken berries	FSSAI 10.005 EASI-CHE-SOP-209 Procedure for physical parameters in food
Piperine	ASTA 12.1 Piperine Content of Black and White Pepper, Their Oleoresins and Soluble Pepper Seasonings
Piperine (HPLC)	EASI-CHE-SOP-224, DETERMINATION OF PIPERINE CONTENT IN PEPPER AND PEPPER OLEORESINS
Piperine Content	EASI-CHE-SOP-224, DETERMINATION OF PIPERINE CONTENT IN PEPPER AND PEPPER OLEORESINS AOAC 987.07 Piperine in Pepper Preparations
POLARIZATION	IS 15279 Sugar and Sugar Products
Polenske Value	IS 548 P-1 METHOD OF SAMPLING AND TEST FOR OILS AND FATS PART I SAMPLING, PHYSICAL AND CHEMICAL TESTS SECTION 1 SAMPLING FSSAI Manual Method
Polybromide test	FSSAI Manual-Oil & Fat
Polyphenol	ISO 14502 P-1, Determination of substances characteristic of green and black tea — Part 1: Content of total polyphenols in tea — Colorimetric method using Folin-Ciocalteu reagent
Polyphenols as Gallic Acid	ISO 14502 P-1, Determination of substances characteristic of green and black tea — Part 1: Content of total polyphenols in tea — Colorimetric method using Folin-Ciocalteu reagent

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Polyunsaturated fatty acids	AOAC 996.01 Fat (Total, Saturated, Unsaturated, and Monounsaturated) in Cereal Products
Ponceau 4R	FSSAI Manual 8, HPLC-DAD
Potassium benzoate as Benzoic acid	FSSAI Manual 8, Manual of Food Additives
Presence of Argemone Oil	IS 548 P-2 Methods of sampling and test for oils and fats: Purity tests FSSAI lab Manual 2 Page. 43- Qualitative
Presence of Caramel	FSSAI Manual Method
Presence of Castor Oil	IS 548 P-2 Methods of sampling and test for oils and fats: Purity tests FSSAI lab Manual 2
Presence of Chromate	FSSAI Manual Method
Presence of Cottonseed Oil	IS 548 P-2 Methods of sampling and test for oils and fats: Purity tests FSSAI lab Manual 2
Presence of Karanja Oil	IS 548 P-2 Methods of sampling and test for oils and fats: Purity tests FSSAI lab Manual 2
Presence of Mineral acids	FSSAI Manual Method
Presence of Mineral Oil	IS 548 P-2 Methods of sampling and test for oils and fats: Purity tests FSSAI lab Manual 2
Presence of mould	EASI-CHE-SOP-209 Procedure for physical parameters in food
Presence of Peroxidase	FSSAI Manual Method
Presence of Rice Bran oil, Linseed oil, Kusum oil, neem oil, Groundnut oil	IS 548 P-2 Methods of sampling and test for oils and fats: Purity tests
Presence of Sesame Oil	IS 548 P-2 Methods of sampling and test for oils and fats: Purity tests FSSAI lab Manual 2
Proline	AOAC 979.20 Proline in Honey
Propionate As Propionic Acid	FSSAI lab Manual 2
Protein	IS 7219 Method for determination of protein in foods and feeds

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		AOAC 920.176 Nitrogen in Sugar & Syrups
		FSSAI Manual Method
		AOAC 920.87 Protein (Total) in Flour
		AOAC 2001.14 Nitrogen (Total) in Cheese
		FSSAI Manual manual method
		AOAC 930.33 Protein Ice cream & Frozen desserts
		AOAC 930.29 Protein in Dried Milk
		AOAC 991.20 Nitrogen (Total) in Milk
		IS 1479 Methods of Test for Dairy Industry Part 1 Rapid Examination of Milk (First Revision)
		AOAC 920.115 Sweet condensed milk
		AOAC 950.48 Protein (Crude) in Nut & Nut Products
		AOAC 925.31 Nitrogen in eggs
	Pungency (Scoville Heat Units), Capsaicinoids	ASTA 21.3,Pungency of Capsicums and Their Oleoresins (HPLC Method)
		AOAC 995.03 Capsaicinoids in Capsicums and their Extractives
	Purity	IS 7224 Iodized salt, vacuum evaporated iodized salt and refined iodized salt
		IS 253 Specification for Common Salt
	Purity (100-extraneous matter)	EASI-CHE-SOP-209 Procedure for physical parameters in food
	Rancidity	FSSAI Manual Method
		IS 1163 Chocolates
		FSSAI Manual method
	Red Streaked Grains	IS 730 Specification for Hook Bolts for Corrugated Sheet Roofing
	Reducing Sugar	IS 6747 Chewing Gum — Specification (Second Revision)
		IS 1163 Chocolates

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		FSSAI Manual Method
		AOAC 925.42 Sugars (Reducing) Before Inversion in Food Dressings
	Reducing Sugars	FSSAI Manual Method
		AOAC 925.42 Sugars (Reducing) Before Inversion in Food Dressings
	Refractions	FSSAI Manual Method
		IS 4333 P-1 Methods of Analysis for Foodgrains Part 1 Refractions (Third Revision)
	Refractive index	IS 2404 Malt Extract
		FSSAI Manual Method
		IS 548 P-1 METHOD OF SAMPLING AND TEST FOR OILS AND FATS PART I SAMPLING, PHYSICAL AND CHEMICAL TESTS SECTION 1 SAMPLING
	Reichert missile value	IS 548 P-1 METHOD OF SAMPLING AND TEST FOR OILS AND FATS PART I SAMPLING, PHYSICAL AND CHEMICAL TESTS SECTION 1 SAMPLING
		FSSAI Manual Method
	Relative density	IS 6613 Neutral Spirit for Alcoholic Drinks
	Residual oxygen	EASI-CHE-SOP-210 Procedure for Residual Oxygen
	Residue on evaporation	IS 3752 Alcoholic drinks- Methods of Test
		FSSAI 13.006
		AOAC 950.27 Solids (Total) in Non Acoholic Beverages
	Rhodamine B	EASI-CHE-SOP-113- Determination of Illegal Dyes in Food & Agricultural and Feed Products by LC-MS/MS
	Rodent contamination	EASI-CHE-SOP-209 Procedure for physical parameters in food
	Rodent hair and excreta	EASI-CHE-SOP-209 Procedure for physical parameters in food
	Rosmerinic acid	EASI-CHE-SOP-151

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		Determination of rosmarinic acid biomarker in beverage and plant extracts by HPLC-UV
	Saccharin	EASI-CHE-SOP-222 Determination of Sweeteners by HPLC FSSAI Lab manual 8 Page.65
	Salt	IS 3507 Method Of Sampling And Test For Butter
	Salt % as NaCl	FSSAI Manual Method
	Salt (as NaCl)	FSSAI Manual Method
	Saponification Value	IS 2785 Natural Cheese (Hard Variety), Processed Cheese, Processed Cheese Spread and Soft Cheese FSSAI Manual Method
	Saponin Content	IS 548 P-1 METHOD OF SAMPLING AND TEST FOR OILS AND FATS PART I SAMPLING, PHYSICAL AND CHEMICAL TESTS SECTION 1 SAMPLING EASI-CHE-SOP-147 Determination of Saponin in food & food products
	Saponins	EASI-CHE-SOP-147 Determination of Saponin in food & food products
	Saturated fatty acids	AOAC 996.01 Fat (Total, Saturated, Unsaturated, and Monounsaturated) in Cereal Products
	Saturated Fatty acids	AOAC 2012.13 Labeled Fatty Acids Content in Milk Products, Infant Formula, and Adult/Pediatric Nutritional Formula
	Scorched particle	EASI-CHE-SOP-214 Procedure for Physical parameter of milk powder
	Scorched Particles	IS 13500 Spray Dried Milk Powders - Scorched Particles - Determination
	Se	IS 15303 Determination of Antimony, Iron and Selenium in Water by Electrothermal Atomic Absorption Spectrometric Method

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	IS 3025 P-56
Sedimentation	IS 13864 Wheat-Determination of the Sedimentation Index - Zeleny Test (First Revision)
Sennosides	EASI-CHE-SOP-157, DETERMINATION OF SENNOSIDES IN PLANTS AND HERBAL EXTRACT SAMPLES
	EASI-CHE-SOP-131, Determination of Sennoside content by UV Spectrophotometer
Separated water	EASI-GEN-SOP-26 Procedure for Sensory Evaluation of Food samples
SHU	AOAC 995.03 Capsaicinoids in Capsicums and their Extractives
	ASTA 21.3 Pungency Of Capsicums And Their Oleoresins (HPLC Method)
Sieve Analysis	ASTA method 10.0 Sieve Analysis
Sinapist Alba	ASTA Method 14.1 Extraneous Matter in Spices (Excluding Black and White Pepper)
Smoke point	EASI-CHE-SOP-216 Procedure for Smoke point
Sodium benzoate as Benzoic acid	FSSAI Manual 8, Manual of Food Additives
Sodium Bi carbonate	FSSAI Manual Method
Sodium Chloride in Brine	AOAC 935.43 Chloride (Total) in Cheese
	AOAC 986.26 Chloride in Milk- Based In fant Formula
Solid content	IS 4467 Caramel
Solubility	Annex F of 14433 INFANT MILK SUBSTITUTES - SPECIFICATION
	F A O JECFA Monographs volume 4
	IS 12759 Dried Milk and Dried Milk Products — Determination of Insolubility Index (First Revision)
Solubility in Boiling Water	IS 2791 SOLUBLE COFFEE POWDER

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	Soluble and Insoluble Dietary Fibre	AOAC 991.43 Total, Soluble, and Insoluble Dietary Fiber in Foods
	Soluble solid	IS 13815 Fruit and vegetable products - Determination of soluble solids content - Refractometric method
	Soluble Solids	AOAC 983.17 Solids (Soluble) in Citrus Fruit Juices AOAC 973.21 Solids (Soluble) in Roasted Coffee
	Sorbic Acid (As Calcium, Sodium, Potassium Salt)	FSSAI Lab manual 8 Page. 106 by HPLC-UV
	Sorbitol content	EASI-CHE-SOP-234, Determination of sorbitol and Xylose by HPLC
	Soya Allergens	EASI-MB-SOP-037 Determination of Soya allergens by ELISA
	Specific Conductivity	IS 1151 Fruit and vegetable products - Determination of soluble solids content - Refractometric method
	Specific Gravity	IS 3752 Alcoholic Drinks- Method of Test AOAC 935.18 Specific Gravity of Cordials and Liqueurs IS 2860 Methods of sampling and test for processed fruits and vegetables IS 4941 Extracted Honey
		AOAC 925.22 Specific gravity of Milk
	Specific optical rotation	EASI-CHE-SOP-218 Procedure for Use & maintenance of polarimeter IS 15279 Sugar and Sugar Products - Methods of Test
	Split Fruits	EASI-CHE-SOP-209 Procedure for physical parameters in food
	Starch	IS 4706 P-2 Methods of tests for edible starches and starch products: Part 2 Chemical methods AOAC 925.38 Starch in Fruits and Fruit Products FSSAI Manual Method
	Starch Content	FSSAI 10.03

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	ASTA Method 8.0 Starch (Direct Acid Hydrolysis)
Stigmasterol	AOAC 994.10 Cholesterol in Foods
Stones	EASI-CHE-SOP-209 Procedure for physical parameters in food
Sucralose	EASI-CHE-SOP- 138, DETERMINATION OF SUCRALOSE BY HPLC
Sucrose	AOAC 982.14 Glucose, Fructose, Sucrose, and Maltose in Presweetened Cereals
	FSSAI Manual method
	IS 12711 Bakery Products - Methods of Analysis
	IS 6747 Chewing Gum — Specification (Second Revision)
	FSSAI Manual Method
	IS 1163 Chocolates
	IS 4941 Extracted Honey
Sudan Black B	EASI-CHE-SOP-113- Determination of Illegal Dyes in Food & Agricultural and Feed Products by LC-MS/MS
Sudan I	EASI-CHE-SOP-113- Determination of Illegal Dyes in Food & Agricultural and Feed Products by LC-MS/MS
Sudan II	EASI-CHE-SOP-113- Determination of Illegal Dyes in Food & Agricultural and Feed Products by LC-MS/MS
Sudan III	EASI-CHE-SOP-113- Determination of Illegal Dyes in Food & Agricultural and Feed Products by LC-MS/MS
Sudan IV	EASI-CHE-SOP-113- Determination of Illegal Dyes in Food & Agricultural and Feed Products by LC-MS/MS
Sudan Orange G	EASI-CHE-SOP-113- Determination of Illegal Dyes in Food & Agricultural and Feed Products by LC-MS/MS
Sudan Red 7B	EASI-CHE-SOP-113-

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	Determination of Illegal Dyes in Food & Agricultural and Feed Products by LC-MS/MS
Sudan Red B	EASI-CHE-SOP-113- Determination of Illegal Dyes in Food & Agricultural and Feed Products by LC-MS/MS
Sudan Red G	EASI-CHE-SOP-113- Determination of Illegal Dyes in Food & Agricultural and Feed Products by LC-MS/MS
Sudan yellow	EASI-CHE-SOP-113- Determination of Illegal Dyes in Food & Agricultural and Feed Products by LC-MS/MS
Sugar	AOAC 945.66 Total reducing sugars
Sugar Alcohols(D-Mannitol,Maltitol,Xylitol,Isomaltose,Erythritol,lactitol)	EASI-CHE-SOP-237 Determination of Sugar Alcohol(D-Mannitol, Maltitol ,Xylitol, Isomaltose, Meso-Erythritol and Lactitol by HPLC
Sugar Free Extract	AOAC 920.63 Nonsugar Solids (Sugar-Free Extract) in Wines
Sugar Profile	AOAC 980.13 Fructose, Glucose, Lactose, Maltose, and Sucrose in Milk Chocolate
Sugar Profile-Fructose	AOAC 982.14 Glucose, Fructose, Sucrose, and Maltose in Presweetened Cereals
Sugar Profile-Glucose	AOAC 982.14 Glucose, Fructose, Sucrose, and Maltose in Presweetened Cereals
Sugar Profile-Lactose	AOAC 982.14 Glucose, Fructose, Sucrose, and Maltose in Presweetened Cereals
Sugar Profile-Maltose	AOAC 982.14 Glucose, Fructose, Sucrose, and Maltose in Presweetened Cereals
Sugar Profile-Sucrose	AOAC 982.14 Glucose, Fructose, Sucrose, and Maltose in Presweetened Cereals

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Sugars	AOAC 930.36 Sucrose in Sugars and Syrups
	AOAC 982.14 Glucose, Fructose, Sucrose, and Maltose in Presweetened Cereals
Sulphate	IS 2317 Method for gravimetric determination of sulphates
	IS 253 Specification for Common Salt
Sulphated Ash	IS 6747 Chewing Gum — Specification (Second Revision)
	FSSAI Manual Method
	FSSAI Manual method
	IS 15279 Sugar and Sugar Products
	AOAC 900.02 Ash of Sugars and Syrups
Sulphated Ash on salt free basis	FSSAI Manual method
Sulphur dioxide	FSSAI 13.029
	AOAC 990.28 Sulfitcs in Foods
Sulphur dioxide (as SO ₂)	AOAC 990.28 Sulfitcs in Foods
	AOAC 990.28 Sulfitcs in Foods
Sunset Yellow	FSSAI Manual 8, HPLC-DAD
Swabs	EASI-CHE-SOP-258 Determination of Fish allergens by ELISA
Swell Volume	USP method
TALC	FSSAI Manual Method
Tannins	FSSAI 13.031
Tannins	EASI-CHE-SOP-116 Determination of tannin in fruit, fruit products and beverages
Tartrazine	EASI-CHE-SOP-105, Determination of Synthetic food colors in food and food products
Taurine	AOAC 997.05 Taurine in Powdered Milk and Powdered Infant Formulae
TBHQ	FSSAI manual 8 Page. 106

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	AOAC 983.15 Phenolic Antioxidants in Oils, Fats, and Butter Oil
Tendrils, Mother Cloves	ASTA Method 14.1 Extraneous Matter in Spices (Excluding Black and White Pepper)
Test for added Natural colours	FSSAI Manual for Food additives
Test for Ammonium Compounds	FSSAI Manual Method
Test for Anionic detergents	FSSAI Manual Method
Test for Boric acid and Borates	FSSAI Manual Method
Test for Cane sugar (Sucrose) in milk	FSSAI Manual Method
Test for Cellulose	FSSAI Manual Method
Test For Cooking Time	IS 1484 Rolled Oats (Quick-Cooking Type)
Test for Formalin	FSSAI Manual Method
Test for Glucose in Milk	FSSAI Manual Method
Test for Hypochlorites & Chloramines	FSSAI Manual Method
Test for Maltodextrin	IS 1479 (P-2) Method of test for for dairy industry: Part 2 Chemical analysis of milk
Test for Nitrate	FSSAI Manual Method
Test for Salicylic acid	FSSAI Manual Method
Test for Sodium Chloride	FSSAI Manual Method
Test for Starch	FSSAI Manual Method
Test for Sulphate	FSSAI Manual Method
Test for Urea	FSSAI Manual Method
Texture	EASI-GEN-SOP-26 Procedure for Sensory Evaluation of Food samples
Theanin	EASI-CHE-SOP-156 Determination of I-Theanine in tea by HPLC
Thickness	EASI-CHE-SOP-209 Procedure for physical parameters in food
Thymoquinone (HPLC)	EASI-CHE-SOP-205, Determination of THYMOQUINONE in Cumin Seed Oil by HPLC
Titratable acidity	IS 3507 Method Of Sampling And Test For Butter

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	IS 11766 Method For Determination Of Titratable Acidity In Milk Powder And Similar Products (routine Method)
	IS 1166 SWEETENED CONDENSED MILK, SWEETENED CONDENSED PARTLY SKIMMED MILK, SWEETENED CONDENSED SKIMMED MILK AND SWEETENED CONDENSED HIGH FAT MILK- SPECIFICATION (Third Revision of IS 1166)
	FSSAI Manual method
	FSSAI Manual Method
Titrateable acidity (as % lactic acid)	AOAC 942.15 Acidity (Titrateable) of Fruit Products
Titrateable Acidity As Acetic Acid	AOAC 942.15 Acidity (Titrateable) of Fruit Products
Titrateable Acidity As Citric Acid Monohydrate	AOAC 942.15 Acidity (Titrateable) of Fruit Products
Titrateable Acidity As Lactic Acid	AOAC 942.15 Acidity (Titrateable) of Fruit Products
Titrateable Acidity As Malic Acid	AOAC 942.15 Acidity (Titrateable) of Fruit Products
Titrateable Acidity As Oxalic Acid	AOAC 942.15 Acidity (Titrateable) of Fruit Products
Titrateable Acidity As Sulfuric Acid	AOAC 942.15 Acidity (Titrateable) of Fruit Products
Titrateable Acidity As Tartaric Acid	AOAC 942.15 Acidity (Titrateable) of Fruit Products
Titrateable Acidity(As Lactic Acid)	IS 1165 Whole Milk Powder
Tocopherol profiling	ISO 9936 Animal and vegetable fats and oils — Determination of tocopherol and tocotrienol contents by high-performance liquid chromatography
Toluene Insoluble Matter	FAO monograph
Toluidine Red	EASI-CHE-SOP-113- Determination of Illegal Dyes in Food & Agricultural and Feed Products by LC-MS/MS
Tomato content	GS 1203
Total Acid As Tartaric Acid Expressed in Terms of 100 ml of Absolute	AOAC 950.15 Acidity (Total) in Nonalcoholic Beverages

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	Total Acid As Tartaric Acid Expressed in Terms of G/100 l of Absolute	IS 3752 Alcoholic Drinks- Method of test
	Total acidity (as tartaric acid)	FSSAI 13.007:2021/FSSAI 13.008
	Total Added Sugar	IS 4079 Canned Rasogolla
	Total Ash	IS 6287 Methods of Sampling and Analysis for Sugar Confectionery
		FSSAI Manual Method
		IS 1158 Corn Flakes
		IS 1485 Macaroni, Spaghetti, Vermicelli and Egg Noodles
		IS 1009 (wheat flour) Maida for General Purposes
		IS 1155 ATTA - SPECIFICATION
		IS 1010 Suji or Rava (Semolina)
		IS 1164 Cocoa Powder
		IS 3077 ROASTED AND GROUND COFFEE
		IS: 2791 SOLUBLE COFFEE POWDER
		AOAC 920.93 Ash of Roasted Coffee
		IS 1797 Spices and condiments
		AOAC 941.12 Ash of Spices
		FSSAI 10.006
		IS 4941 Extracted Honey
		AOAC 920.153 Ash of Meat
		IS 14433 (P-1) INFANT MILK SUBSTITUTES
		IS 1165 Whole Milk Powder
		AOAC 930.30 Ash of Dried Milk
		IS 1656 Infant Food — Milk-Cereal Based Complementary Foods
		AOAC 945.46 Ash of Milk
		AOAC 923.03 Ash of Flour
		AOAC 900.02 Ash of Sugars and Syrups
		AOAC 920.100 Ash in Tea
		IS 13854 Tea - Determination of total ash

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Total Carbohydrates	EASI-CHE-SOP-123 Procedure for calculation of Energy value
	AOAC 986.25 Proximate Analysis of Milk-Based Infant Formula
Total Chloride	IS 7224 Iodized salt, vacuum evaporated iodized salt and refined iodized salt
	IS 253 Specification for Common Salt
	AOAC 935.43 Chloride (Total) in Cheese
Total Dietary Fiber	AOAC 985.29 Total Dietary Fiber in Foods
	AOAC 991.43 Total, Soluble, and Insoluble Dietary Fiber in Foods
Total Dietary Fibre	AOAC 985.29 Total Dietary Fiber in Foods
Total Fat	FSSAI Manual method
	FSSAI Manual Method
	IS 1163 Chocolates
	AOAC 960.39 Fat (Crude) or Ether Extract in Meat
	IS 5960 (P-3) Meat and Meat Products - Methods of Test Part 3 Determination of Total Fat Content (First Revision)
	IS 11721 Dried Milk and Dried milk products - Determination of Fat Content - Gravimetric Method (Reference Method)
	IS 1165 Whole Milk Powder
	IS 1656 Infant Food — Milk-Cereal Based Complementary Foods — Specification
	AOAC 920.39 Fat (Crude) or Ether Extract in Animal Feed
	IS 15271 Namkeen
Total Nitrogen	IS 4467 Cranes — Wind Load Assessment (First Revision)
	FSSAI Manual
Total Polar compounds	AOAC 982.27 Polar Compounds in Frying Fats
Total Protein	FSSAI Manual Method
	FSSAI Manual method
	IS 1163 Chocolates

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	AOAC 928.08 Nitrogen in Meat
Total reducing Sugar	AOAC 945.66 Total reducing sugars
Total Reducing Sugar As Invert Sugar	IS 4941 Extracted Honey
Total Solid	IS 12711 Bakery Products - Methods of Analysis
Total Solids	FSSAI Manual method
	AOAC 920.151 Solids (Total) in Fruits and Fruits Products
	AOAC 935.56 Solids (Total) in Food Dressings
	IS 4941 Extracted Honey
	IS 2802 Ice-Cream
	FSSAI Manual manual method
	IS 1165 Whole Milk Powder
	AOAC 990.20 Solids (Total) in Milk
	IS 1166 SWEETENED CONDENSED MILK, SWEETENED CONDENSED PARTLY SKIMMED MILK, SWEETENED CONDENSED SKIMMED MILK AND SWEETENED CONDENSED HIGH FAT MILK- SPECIFICATION (Third Revision of IS 1166)
	AOAC 920.115 Sweet condensed milk
Total Soluble Solid	AOAC 970.59 Solids (Soluble) in Tomato products
Total soluble solid/Brix	FSSAI Manual Method
Total Soluble Solids/Brix	AOAC 932.12 Solids (Soluble) in Fruits and Fruit Products
	AOAC 976.20 Solids (Soluble) in Frozen Concentrate for Lemonade
	AOAC 983.17 Solids (Soluble) in Citrus Fruit Juices
	IFU Method 8 Determination of Soluble Solids
Total Sugar	IS 6287 Methods of Sampling and Analysis for Sugar Confectionery

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AOAC 945.66 Total reducing
sugars

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Accredited to ISO/IEC 17025:2017

Effective Date January 12, 2024

FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
Chemical continued	Food & Feed Products (Food & Agriculture products, Marine & Aquaculture, Animal Food & Feed, Nutritional & Nutraceutical, Health Supplement, Fortified Food, Processed Food, Proprietary Food Additives, Edible Color & Flavour & Preservatives), swabs (only for allergens) continued	Starch	AOAC 920.40 Starch in Animal feed
		Total Sugar Alcohols(D-Mannitol,Maltitol,Xylitol,Iso maltose,Erythritol,lactitol)	EASI-CHE-SOP-237 Determination of Sugar Alcohol(D-Mannitol, Maltitol ,Xylitol, Isomaltose, Meso-Erythritol and Lactitol by HPLC
		Total sulphur	EASI-CHE-SOP-59 Determination of Sulphur in grapes by HPLC-UV/DAD
		Total Volatile Basic Nitrogen	FSSAI Manual Method
		Trans fatty acids	AOAC 996.01 Fat (Total, Saturated, Unsaturated, and Monounsaturated) in Cereal Products
		Transmittance	EASI-CHE-SOP-168 Determination of Transmittance in Fruit and Fruit Products
		Tryptophan	AOAC 2017.03 Total Tryptophan in an Infant Formula and Adult/Pediatric Nutritional Formula
		Unopened shells	EASI-CHE-SOP-209 Procedure for physical parameters in food
		Unripe and marked fruits	EASI-CHE-SOP-209 Procedure for physical parameters in food
		Un-saponifiable Matter	FSSAI Manual Method
			IS 548 P-1 METHOD OF SAMPLING AND TEST FOR OILS AND FATS PART I SAMPLING, PHYSICAL AND

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
			CHEMICAL TESTS SECTION 1 SAMPLING
		Urease Activity	IS 7835 Edible Medium-fat Soya Flour
		Uric Acid	IS 4333 : Part 5 Methods of analysis for foodgrains: Part 5 Determination of uric acid
			FSSAI Manual Method
		Vanillin	EASI-CHE-SOP-155 Determination of Vanillin in Vanilla beans, spices and Herbal extract samples
		Visual Inspection	EASI-GEN-SOP-26 Procedure for Sensory Evaluation of Food samples
		Vitamin A	AOAC 2001.13 Vitamin A (Retinol) in Foods by Liquid Chromatography
			AOAC 2012.10 Simultaneous determination of 13-cis and all trans Vitamin A(Retiny)l palmitate) and Vitamin A Acetate (Retinal Acetate) and Total vitamin E (di- α -Tochopherol and di-di- α -Tochopherol Acetate) in Infant food and Adult Nutritionals
			IS 16639: 2018 Determination of Vitamin E and Vitamin A by Normal Phase High Performance Liquid Chromatography Vitamin A (as retinol equivalent RE)
		Vitamin B1 (Thiamin)	BS EN 14122,Foodstuffs — Determination of vitamin B1 by HPLC
			AOAC 957.17 Thiamine (Vitamin B1)
		Vitamin B1, B2, B6	AOAC 2015.14 Total Vitamins B1, B2, and B6 in Infant Formula and Related Nutritionals
		Vitamin B1,B2,B3,B6	ISO 21470,Infant formula and adult nutritionals — Simultaneous determination of

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
			total vitamins B1, B2, B3 and B6 — Enzymatic digestion and LC-MS/MS
		Vitamin B12	ISO 20634, Infant formula and adult nutritionals — Determination of vitamin B12 by reversed phase high performance liquid chromatography (RP-HPLC)
			AOAC 2011.09 Vitamin B12 in Infant Formula and Adult Nutritionals
		Vitamin B2 (Riboflavin)	BS EN 14152, Foodstuffs — Determination of vitamin B2 by HPLC
			AOAC 970.65 Riboflavin (Vitamin B2) in Foods and Vitamin Preparations
		Vitamin C	EASI-CHE-SOP-112, Determination of Vitamin C in Food, Feed, Nutraceutical and Premix Samples
		Vitamin B3	BS EN 15652, Foodstuffs — Determination of niacin by HPLC
			EASI-CHE-SOP-154, DETERMINATION OF VITAMIN B3, B5, B7, B9 IN NUTRACEUTICALS AND COMPLEMENTARY FOOD PRODUCTS BY LC-MS/MS
		Vitamin B5	EASI-CHE-SOP-154, DETERMINATION OF VITAMIN B3, B5, B7, B9 IN NUTRACEUTICALS AND COMPLEMENTARY FOOD PRODUCTS BY LC-MS/MS
			EASI-CHE-SOP-020, DETERMINATION OF PANTOTHENIC ACID (VITAMIN B5) IN FOOD, FEED, NUTRACEUTICALS AND PREMIXES
			ISO 20639, Infant formula and adult nutritionals — Determination of pantothenic

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
			acid by ultra high performance liquid chromatography and tandem mass spectrometry method (UHPLC-MS/MS)
		Vitamin B6	BS EN 14164, Foodstuffs- Determination of vitamin B6 by HPLC
		Vitamin B7	ISO 23305, Fortified milk powders, infant formula and adult nutritionals — Determination of total biotin by liquid chromatography coupled with immunoaffinity column clean-up extraction
			ISO 23305, Fortified milk powders, infant formula and adult nutritionals — Determination of total biotin by liquid chromatography coupled with immunoaffinity column clean-up extraction
		Vitamin B7(Biotin)	EASI-CHE-SOP-70, DETERMINATION OF BIOTIN (VITAMIN B7) IN FOOD, FEED, NUTRACEUTICAL AND PREMIX SAMPLES
			EASI-CHE-SOP-154, DETERMINATION OF VITAMIN B3, B5, B7, B9 IN NUTRACEUTICALS AND COMPLEMENTARY FOOD PRODUCTS BY LC-MS/MS
		Vitamin B9	AOAC 2011.06, Total Folate in Infant Formula and Adult Nutr
			EASI-CHE-SOP-71, Determination of Folic Acid (Vitamin B9) in Food, Feed, Nutraceutical and Premix Samples
			EASI-CHE-SOP-154, DETERMINATION OF VITAMIN B3, B5, B7, B9 IN NUTRACEUTICALS AND COMPLEMENTARY FOOD PRODUCTS BY LC-MS/MS

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
		Vitamin B9 (as dietary folate Equivalent)	EASI-CHE-SOP-71, Determination of Folic Acid (Vitamin B9) in Food, Feed, Nutraceutical and Premix Samples
		Vitamin B9 (Folic acid)	AOAC 2013.13 Folate in Infant Formula and Adult/Pediatric Nutritional Formula
		Vitamin C	AOAC 2012.21 Vitamin C in Infant Formula and Adult/Pediatric Nutritional Formula
			EASI-CHE-SOP-199 ,Determination of Vitamin C in Infant Formula and Adult/Pediatric Nutritional Formula by HPLC-UV.
			IS 5838, METHODS FOR ESTIMATION OF VITAMIN C IN FOODSTUFFS
		Vitamin C (Ascorbic Acid)	IFU Rev. 2005 Method. 17a, Fruit and Vegetable
		Vitamin D	AOAC 2011.11 Vitamin D in Infant Formula and Adult/Pediatric Nutritional Formula
			ISO 20636 Infant formula and adult nutritionals — Determination of vitamin D by liquid chromatography-mass spectrometry
			ISO 14892,Dried skimmed milk — Determination of vitamin D content using high-performance liquid chromatography
			AOAC 2011.12 Determination of Vitamins D2 and D3 in Infant Formula and Adult Nutritionals by Ultra-Pressure Liquid Chromatography with Tandem Mass Spectrometry Detection (UPLC-MS/MS)
		Vitamin D2	AOAC 2016.05 Analysis of Vitamin D2 and Vitamin D3 in

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
			Fortified Milk Powders, Infant Formulas, and Adult/Pediatric Nutritional Formulas
		Vitamin D3	AOAC 2016.05 Analysis of Vitamin D2 and Vitamin D3 in Fortified Milk Powders, Infant Formulas, and Adult/Pediatric Nutritional Formulas
			AOAC 2002.05 Cholecalciferol (Vitamin D3) in Selected Foods
		Vitamin E	JAOAC 2001.13 Determination of Vitamins A (Retinol) and E (alpha-Tocopherol) in Foods by Liquid Chromatography: Collaborative Study
			AOAC 2012.10 Simultaneous determination of 13-cis and all trans Vitamin A(Retiny)l palmitate) and Vitamin A Acetate (Retinal Acetate) and
			Total vitamin E (di- α -Tocopherol and di-di- α -Tocopherol Acetate) in Infant food and Adult Nutritionals
		Vitamin K	AOAC 999.15 AOAC Official Method 999.15Vitamin K in Milk and Infant FormulasLiquid Chromatographic Method
		Vitamin K1	ISO 21446, Infant formula and adult nutritionals — Determination of trans and total (cis + trans) vitamin K1 content — Normal phase HPLC
		Vitamin K1	EASI-CHE-SOP-193, Determination of Vitamin K1 (Total & Trans) in Milk and Milk products
		Vitamin K2	AOAC 999.15 AOAC Official Method 999.15Vitamin K in Milk and Infant FormulasLiquid Chromatographic Method
		Vitamin K3	AOAC 999.15 AOAC Official Method 999.15Vitamin K in Milk

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			and Infant Formulas Liquid Chromatographic Method
		Volatile Acid As Acetic Acid Expressed in Terms of 100 l of Absl	IS 7874 P-2 Methods of tests for animal feeds and feeding stuffs: Part 2 Minerals and trace elements
		Volatile Acid As Acetic Acid Expressed in Terms of 100 ml of Absl	AOAC 950.21 Acidity (Volatile) in Nonalcoholic Beverages
		Volatile Acidity	AOAC 925.34 Acidity (volatile) of Fruit Products
		Volatile acids	FSSAI Manual Method
			IFU method 05 Determination of volatile Acids
		Volatile acids (as acetic acid)	IS 3752 Alcoholic Drinks- Method of test
		Volatile acids (as acetic acid)	FSSAI 13.009
		Volatile Oil	AOAC 962.17 Volatile Oil In Spices
			ASTA 5.0 Steam Volatile Oil (Modified Clevenger Method)
			FSSAI Manual Method
			IS 1797 Spices and Condiments
		Water Activity	EASI-CHE-SOP-215 Procedure for Water Activity
		Water Extract	IS 13862 Tea - Determination of Water Extract
		Water Insoluble Ash	IS 1797 Spices and Condiments
			AOAC 920.100 Ash in Tea
		Water Insoluble Matter	IS 7224 Iodized salt, vacuum evaporated iodized salt and refined iodized salt
		Water Insoluble Matter	IS 253 Specification for Common Salt
		Water insoluble matters	Methods of the International Honey Commission
		Water soluble ash	IS 3077 ROASTED AND GROUND COFFEE
			AOAC 920.93 Ash of Roasted Coffee

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
			IS 13855 Tea - Determination of water-soluble ash and water-insoluble ash
			AOAC 920.100 Ash in Tea
		Water soluble matter	IS 3077 ROASTED AND GROUND COFFEE
		weeviled grain	IS 4333 : Part 1 Methods of Analysis for Foodgrains Part 1 Refractions (Third Revision)
		Weevilled Grains	EASI-CHE-SOP-209 Procedure for physical parameters in food
		Weight per Liter and over Run in Ice cream	FSSAI Manual manual method
			IS 2802 Ice-cream
		Wet Gluten	IS 8162 Wheat flour - Method for determination of wet gluten
		Wettability	EASI-CHE-SOP-214 Procedure for Physical parameter of milk powder
		Width	ISO 7301 Rice — Specification
			EASI-CHE-SOP-209 Procedure for physical parameters in food
		Withanolides	EASI-CHE-SOP-152, DETERMINATION OF WITHANOLIDES IN BEVERAGE AND PLANT EXTRACTS BY HPLC-UV
			AOAC 995.03 Capsaicinoids in Capsicums and their Extractives
			EASI-CHE-SOP-126, DETERMINATION OF WITHANOLIDES BY HPLC-UV/DAD
			EASI-CHE-SOP-229 Estimation of Free & Total Withanolides In Ashwagandha Extract
		Xanthophyll	EASI-CHE-SOP-171 Determination of Total Xanthophyll in Marigold Oleoresin
		Xylitol	EASI-CHE-SOP-237 Determination of Sugar Alcohol(D-Mannitol, Maltitol

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
			,Xylitol, Isomaltose, Meso-Erythritol and Lactitol by HPLC
		Xylose	EASI-CHE-SOP-234, Determination of sorbitol and Xylose by HPLC
		Yellow Grains	EASI-CHE-SOP-209 Procedure for physical parameters in food
		Zinc oxide	EASI-CHE-SOP-44 Determination of Metals and Minerals by Inductively Coupled Plasma- Mass Spectrometer (ICP-MS), Inductively Coupled Plasma- Optical Emission Spectrometer (ICP-OES), and Atomic Absorption Spectrometer in Food Stuffs
	Food Additives & Preservatives, Edible Colors & Flavors	Peanut Allergens	EASI-MB-SOP-036 Determination of Peanut allergens by ELISA
	Fortified Atta	Folic acid	EASI-CHE-SOP-71, Determination of Folic Acid (Vitamin B9) in Food, Feed, Nutraceutical and Premix Samples
		Iron	EASI-CHE-SOP-265- Determination of Iron in fortified rice samples by inductively coupled plasma- mass spectrometer (ICPMS).
		Vitamin A	AOAC 2001.13 Vitamin A (Retinol) in Foods by Liquid Chromatography
		Vitamin B1 (Thiamine)	BS EN 14122, Foodstuffs — Determination of vitamin B1 by HPLC
		Vitamin B12	AOAC 2011.09 Vitamin B12 in Infant Formula and Adult Nutritionals
		Vitamin B2 (Riboflavin)	BS EN 14152, Foodstuffs — Determination of vitamin B2 by HPLC
		Vitamin B3	BS EN 15652, Foodstuffs — Determination of niacin by HPLC

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
		Vitamin B6	BS EN 14164, Foodstuffs- Determination of vitamin B6 by HPLC
		Vitamin B9	EASI-CHE-SOP-71, Determination of Folic Acid (Vitamin B9) in Food, Feed, Nutraceutical and Premix Samples
		Zinc	AOAC 2011.14 Minerals and Trace Elements in Milk and Milk Products, Infant Formula, and Adult Nutritionals
			EASI-CHE-SOP-044- Determination of Metals and Minerals by Inductively Coupled Plasma- Mass Spectrometer (ICP-MS), Inductively Coupled Plasma- Optical Emission Spectrometer (ICP-OES) and Atomic Absorption Spectrometer in Food Stuffs
	Fortified bakery and confectionary products	Folic acid	EASI-CHE-SOP-71, Determination of Folic Acid (Vitamin B9) in Food, Feed, Nutraceutical and Premix Samples
		Vitamin A	AOAC 2001.13 Vitamin A (Retinol) in Foods by Liquid Chromatography
		Vitamin B1 (Thiamine)	BS EN 14122"BS EN 14122, Foodstuffs — Determination of vitamin B1 by HPLC"
		Vitamin B12	AOAC 2011.09 Vitamin B12 in Infant Formula and Adult Nutritionals
		Vitamin B2 (Riboflavin)	BS EN 14152, Foodstuffs — Determination of vitamin B2 by HPLC
		Vitamin B3	BS EN 15652, Foodstuffs — Determination of niacin by HPLC
		Vitamin B6	BS EN 14164, Foodstuffs- Determination of vitamin B6 by HPLC

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
	Fortified Bakery wares	Folic acid	EASI-CHE-SOP-71, Determination of Folic Acid (Vitamin B9) in Food, Feed, Nutraceutical and Premix Samples
		Iron	AOAC 2011.14 Minerals and Trace Elements in Milk and Milk Products, Infant Formula, and Adult Nutritionals
			EASI-CHE-SOP-44 Determination of Metals and Minerals by Inductively Coupled Plasma- Mass Spectrometer (ICP-MS), Inductively Coupled Plasma- Optical Emission Spectrometer (ICP-OES), and Atomic Absorption Spectrometer in Food Stuffs
		Vitamin A	AOAC 2001.13 Vitamin A (Retinol) in Foods by Liquid Chromatography
		Vitamin B1 (Thiamine)	BS EN 14122, Foodstuffs — Determination of vitamin B1 by HPLC
		Vitamin B12	AOAC 2011.09 Vitamin B12 in Infant Formula and Adult Nutritionals
		Vitamin B2 (Riboflavin)	BS EN 14152, Foodstuffs — Determination of vitamin B2 by HPLC
		Vitamin B3	BS EN 15652, Foodstuffs — Determination of niacin by HPLC
		Vitamin B6	BS EN 14164, Foodstuffs- Determination of vitamin B6 by HPLC
		Zinc	AOAC 2011.14 Minerals and Trace Elements in Milk and Milk Products, Infant Formula, and Adult Nutritionals
			EASI-CHE-SOP-044- Determination of Metals and Minerals by Inductively Coupled Plasma- Mass Spectrometer

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
			(ICP-MS), Inductively Coupled Plasma- Optical Emission Spectrometer (ICP-OES) and Atomic Absorption Spectrometer in Food Stuffs
	Fortified Cereal, Pulses & cereal products	Folic acid	EASI-CHE-SOP-71, Determination of Folic Acid (Vitamin B9) in Food, Feed, Nutraceutical and Premix Samples
		Iron	AOAC 2011.14 Minerals and Trace Elements in Milk and Milk Products, Infant Formula, and Adult Nutritionals
			EASI-CHE-SOP-44 Determination of Metals and Minerals by Inductively Coupled Plasma- Mass Spectrometer (ICP-MS), Inductively Coupled Plasma- Optical Emission Spectrometer (ICP-OES), and Atomic Absorption Spectrometer in Food Stuffs
		Vitamin A	AOAC 2001.13 Vitamin A (Retinol) in Foods by Liquid Chromatography
		Vitamin B1 (Thiamine)	BS EN 14122, Foodstuffs — Determination of vitamin B1 by HPLC
		Vitamin B12	AOAC 2011.09 Vitamin B12 in Infant Formula and Adult Nutritionals
		Vitamin B2 (Riboflavin)	BS EN 14152, Foodstuffs — Determination of vitamin B2 by HPLC
		Vitamin B3	BS EN 15652, Foodstuffs — Determination of niacin by HPLC
		Vitamin B6	BS EN 14164, Foodstuffs- Determination of vitamin B6 by HPLC
		Zinc	AOAC 2011.14 Minerals and Trace Elements in Milk and Milk Products, Infant Formula,

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
			and Adult Nutritionals
			EASI-CHE-SOP-044-Determination of Metals and Minerals by Inductively Coupled Plasma- Mass Spectrometer (ICP-MS), Inductively Coupled Plasma- Optical Emission Spectrometer (ICP-OES) and Atomic Absorption Spectrometer in Food Stuffs
	Fortified Food	Acid Insoluble Ash	AOAC 923.03 Ash of Flour
		Amino acids - Total profile (Except tryptophan)	EASI-CHE-SOP-025,Determination of Amino acids by HPLC-FLD after derivatization with AQC
		Arsenic	AOAC 2015.01 Heavy Metals in Food Inductively Coupled Plasma–Mass Spectrometry
		Biotin	EASI-CHE-SOP-70,DETERMINATION OF BIOTIN (VITAMIN B7) IN FOOD, FEED, NUTRACEUTICAL AND PREMIX SAMPLES
			EASI-CHE-SOP-154,DETERMINATION OF VITAMIN B3, B5, B7, B9 IN NUTRACEUTICALS AND COMPLEMENTARY FOOD PRODUCTS BY LC-MS/MS
		Cadmium	AOAC 2015.01 Heavy Metals in Food Inductively Coupled Plasma–Mass Spectrometry
		Calcium	AOAC 2015.06 Minerals and Trace Elements in Milk, Milk Products, Infant Formula, and Adult/Pediatric Nutritional Formula
		Chloride	IS 11763 Cheese And Processed Cheese Products — Determination Of Chloride Content — Potentiometric Titration Method

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
		Cholesterol	AOAC 994.10 Cholesterol in Foods
		Choline	AOAC 2015.10 Free and Total Choline and Carnitine in Infant Formula and Adult/Pediatric Nutritional Formula
			AOAC 999.14 Choline in Infant Formula and Milk
		Copper	AOAC 2015.06 Minerals and Trace Elements in Milk, Milk Products, Infant Formula, and Adult/Pediatric Nutritional Formula
		Crude Fibre	AOAC 962.09 Fiber (Crude) in Animal Feed and Pet Food
		DHA	AOAC 996.01 Fat (Total, Saturated, Unsaturated, and Monounsaturated) in Cereal Products
		Dietary Fiber	AOAC 985.29 Total Dietary Fiber in Foods
		Inositol	EASI-CHE-SOP-050 Determination of inositol in infant formula by GC-FID
		Insolubility Index	IS 12759 Dried Milk and Dried Milk Products — Determination of Insolubility Index (First Revision)
		Iron	AOAC 2015.06 Minerals and Trace Elements in Milk, Milk Products, Infant Formula, and Adult/Pediatric Nutritional Formula
		Lactose	AOAC 982.14 Glucose, Fructose, Sucrose, and Maltose in Presweetened Cereals
		L-Carnitine	AOAC 2012.17, Free and Total Carnitine in Infant and Adult/Pediatric Nutritional Formulas by Liquid Chromatography/Tandem Mass Spectrometry
		Lead	AOAC 2015.01 Heavy Metals in Food

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
			Inductively Coupled Plasma–Mass Spectrometry
		Linolenic Acid	AOAC 996.01 Fat (Total, Saturated, Unsaturated, and Monounsaturated) in Cereal Products
		Magnesium	AOAC 2015.06 Minerals and Trace Elements in Milk, Milk Products, Infant Formula, and Adult/Pediatric Nutritional Formula
		Moisture	AOAC 935.29 Loss on Drying (Moisture) in Malt
		Monounsaturated fatty acids	AOAC 996.01 Fat (Total, Saturated, Unsaturated, and Monounsaturated) in Cereal Products
		Non Protein nitrogen	FSSAI Manual for analysis of milk and milk products page no. 49
		Omega 3	EASI-CHE-SOP-166 DETERMINATION OF THE FATTY ACID PROFILE (SATURATED, UNSATURATED, TRANS FATTY ACIDS,Ω-FATTY ACIDS) BY GAS CHROMATOGRAPH
		Omega 6	AOAC 996.01 Fat (Total, Saturated, Unsaturated, and Monounsaturated) in Cereal Products
			EASI-CHE-SOP-166 DETERMINATION OF THE FATTY ACID PROFILE (SATURATED, UNSATURATED, TRANS FATTY ACIDS,Ω-FATTY ACIDS) BY GAS CHROMATOGRAPH
		Omega 9	AOAC 996.01 Fat (Total, Saturated, Unsaturated, and Monounsaturated) in Cereal Products
			EASI-CHE-SOP-166 DETERMINATION OF THE

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			FATTY ACID PROFILE (SATURATED, UNSATURATED, TRANS FATTY ACIDS, Ω-FATTY ACIDS) BY GAS CHROMATOGRAPH
		Polyunsaturated fatty acids	AOAC 996.01 Fat (Total, Saturated, Unsaturated, and Monounsaturated) in Cereal Products
		Potassium	AOAC 2015.06 Minerals and Trace Elements in Milk, Milk Products, Infant Formula, and Adult/Pediatric Nutritional Formula
		Protein	IS 7219 Method for determination of protein in foods and feeds
		Saturated fatty acids	AOAC 996.01 Fat (Total, Saturated, Unsaturated, and Monounsaturated) in Cereal Products
		Sodium	AOAC 2015.06 Minerals and Trace Elements in Milk, Milk Products, Infant Formula, and Adult/Pediatric Nutritional Formula
		Solubility percent	IS 14433 INFANT MILK SUBSTITUTES
		Sugar	AOAC 945.66 Total reducing sugars
		Total Ash	AOAC 923.03 Ash of Flour
		Total Carbohydrates	EASI-CHE-SOP-123 Procedure for calculation of Energy value
			AOAC 986.25 Proximate Analysis of Milk-Based Infant Formula
		Fat	AOAC 922.06 Fat in flour
		Trans fatty acids	AOAC 996.01 Fat (Total, Saturated, Unsaturated, and Monounsaturated) in Cereal Products
		Tryptophan	AOAC 2017.03 Total

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
			Tryptophan in an Infant Formula and Adult/Pediatric Nutritional Formula
		Vitamin A	AOAC 2001.13 Vitamin A (Retinol) in Foods by Liquid Chromatography
			AOAC 2012.10 Simultaneous determination of 13-cis and all trans Vitamin A(Retiny)l palmitate) and Vitamin A Acetate (Retinal Acetate) and Total vitamin E (di-α-Tochopherol and di-di-α-Tochopherol Acetate) in Infant food and Adult Nutritionals
		Vitamin B1 (Thiamine)	AOAC 2015.14 Total Vitamins B1, B2, and B6 in Infant Formula and Related Nutritionals
			BS EN 14122, Foodstuffs — Determination of vitamin B1 by HPLC
		Vitamin B12	AOAC 2011.09 Vitamin B12 in Infant Formula and Adult Nutritionals
			EASI-CHE-SOP-154 / FSSAI.FR.16.003.2022. (Annexure-III) Determination of Vitamin B3, B5, B7, B9 in Nutraceuticals and Complementary Food Products by LC-MS/MS/Method for determination of Vitamin B12 in Fortified Rice by LC-MS/MS
		Vitamin B2 (Riboflavin)	BS EN 14152, Foodstuffs — Determination of vitamin B2 by HPLC
			AOAC 2015.14 Total Vitamins B1, B2, and B6 in Infant Formula and Related Nutritionals
		Vitamin B3	BS EN 15652, Foodstuffs — Determination of niacin by HPLC

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
		Vitamin B5	EASI-CHE-SOP-020, DETERMINATION OF PANTOTHENIC ACID (VITAMIN B5) IN FOOD, FEED, NEUTRACEUTICALS AND PREMIXES
			EASI-CHE-SOP- 154, Determination Of Vitamin B3, B5, B7, B9 In Nutraceuticals and Complementary Food Products By LC-MS/MS
		Vitamin B6	AOAC 2015.14 Total Vitamins B1, B2, and B6 in Infant Formula and Related Nutritional
		Vitamin B6	BS EN 14164, Foodstuffs- Determination of vitamin B6 by HPLC
		Vitamin B9	AOAC 2011.06, Total Folates in Infant Formula and Adult Nutr
			EASI-CHE-SOP- 154 / FSSAI.FR.16.002.2022. (Annexure-II), Determination Of Vitamin B3, B5, B7, B9 In Nutraceuticals and Complementary Food Products By LC-MS/MS/Method for determination of Folic Acid in Fortified Rice – Vitamin B9- Folic acid
		Vitamin C	AOAC 2012.21 Vitamin C in Infant Formula and Adult/Pediatric Nutritional Formula
			EASI-CHE-SOP-112, Determination of Vitamin C in Food, Feed, Nutraceutical and Premix Samples
			IS 5838, METHODS FOR ESTIMATION OF VITAMIN C IN FOODSTUFFS
		Vitamin D	AOAC 2016.05 Analysis of Vitamin D2 and Vitamin D3 in Fortified Milk Powders, Infant Formulas, and Adult/Pediatric Nutritional Formulas

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
			AOAC 2011.11 Vitamin D in Infant Formula and Adult/Pediatric Nutritional Formula
			AOAC 2011.12 Determination of Vitamins D2 and D3 in Infant Formula and Adult Nutritionals by Ultra-Pressure Liquid Chromatography with Tandem Mass Spectrometry Detection (UPLC-MS/MS)
		Vitamin E	JAOAC 2001.13 Determination of Vitamins A (Retinol) and E (alpha-Tocopherol) in Foods by Liquid Chromatography: Collaborative Study
			AOAC 2012.10 Simultaneous determination of 13-cis and all trans Vitamin A(Retiny)l palmitate) and Vitamin A Acetate (Retinal Acetate) and Total vitamin E (di-α-Tochopherol and di-di-α-Tochopherol Acetate) in Infant food and Adult Nutritionals
		Vitamin K	AOAC 999.15 AOAC Official Method 999.15 Vitamin K in Milk and Infant Formulas Liquid Chromatographic Method
		Water Activity	EASI-CHE-SOP-215 Procedure for Water Activity
		Zinc	AOAC 2011.14 Minerals and Trace Elements in Milk and Milk Products, Infant Formula, and Adult Nutritionals
	Fortified Fruit Juices	Vitamin C	EASI-CHE-SOP-112, Determination of Vitamin C in Food, Feed, Nutraceutical and Premix Samples
	Fortified Maida	Folic acid	EASI-CHE-SOP-71, Determination of Folic Acid (Vitamin B9) in Food, Feed,

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
			Neutraceutical and Premix Samples
		Iron	EASI-CHE-SOP-265- Determination of Iron in fortified rice samples by inductively coupled plasma- mass spectrometer (ICPMS).
		Vitamin A	AOAC 2001.13 Vitamin A (Retinol) in Foods by Liquid Chromatography
		Vitamin B1 (Thiamine)	BS EN 14122, Foodstuffs — Determination of vitamin B1 by HPLC
		Vitamin B12	AOAC 2011.09 Vitamin B12 in Infant Formula and Adult Nutritionals
		Vitamin B2 (Riboflavin)	BS EN 14152, Foodstuffs — Determination of vitamin B2 by HPLC
		Vitamin B3	BS EN 15652, Foodstuffs — Determination of niacin by HPLC
		Vitamin B6	BS EN 14164, Foodstuffs- Determination of vitamin B6 by HPLC
		Zinc	AOAC 2011.14 Minerals and Trace Elements in Milk and Milk Products, Infant Formula, and Adult Nutritionals
			EASI-CHE-SOP-044- Determination of Metals and Minerals by Inductively Coupled Plasma- Mass Spectrometer (ICP-MS), Inductively Coupled Plasma- Optical Emission Spectrometer (ICP-OES) and Atomic Absorption Spectrometer in Food Stuffs
	Fortified Milk	Vitamin A	AOAC 2001.13 Vitamin A (Retinol) in Foods by Liquid Chromatography
			AOAC 2016.05 Analysis of Vitamin D2 and Vitamin D3 in Fortified Milk Powders, Infant

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
			Formulas, and Adult/Pediatric Nutritional Formulas
		Vitamin D2	AOAC 2016.05 Analysis of Vitamin D2 and Vitamin D3 in Fortified Milk Powders, Infant Formulas, and Adult/Pediatric Nutritional Formulas
		Vitamin D3	AOAC 2016.05 Analysis of Vitamin D2 and Vitamin D3 in Fortified Milk Powders, Infant Formulas, and Adult/Pediatric Nutritional Formulas
	Fortified Oil	Vitamin A	AOAC 2001.13 Vitamin A (Retinol) in Foods by Liquid Chromatography
		Vitamin D	AOAC 2016.05 Analysis of Vitamin D2 and Vitamin D3 in Fortified Milk Powders, Infant Formulas, and Adult/Pediatric Nutritional Formulas
	Fortified rice	Iron	EASI-CHE-SOP-265- Determination of Iron in fortified rice samples by inductively coupled plasma- mass spectrometer (ICPMS).
		Vitamin A	AOAC 2001.13 Vitamin A (Retinol) in Foods by Liquid Chromatography
		Vitamin B1 (Thiamine)	BS EN 14122, Foodstuffs — Determination of vitamin B1 by HPLC
		Vitamin B12	AOAC 2011.09 Vitamin B12 in Infant Formula and Adult Nutritionals
		Vitamin B2 (Riboflavin)	BS EN 14152, Foodstuffs — Determination of vitamin B2 by HPLC
		Vitamin B3	BS EN 15652, Foodstuffs — Determination of niacin by HPLC
		Vitamin B6	BS EN 14164, Foodstuffs- Determination of vitamin B6 by HPLC
		Zinc	AOAC 2011.14 Minerals and Trace Elements in Milk

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			and Milk Products, Infant Formula, and Adult Nutritionals
			EASI-CHE-SOP-044 Determination of Metals and Minerals by Inductively Coupled Plasma- Mass Spectrometer (ICP-MS), Inductively Coupled Plasma- Optical Emission Spectrometer (ICP-OES) and Atomic Absorption Spectrometer in Food Stuffs
	Fortified rice, wheat, atta, maida	Iron	EASI-CHE-SOP-44 / FSSAI.FR.16.001.2022. (Annexure-.I) Determination of Metals and Minerals In Food & Agricultural Products, Animal Food & Feeds, Ayush Products, Nutraceuticals & Functional Foods, Nutritional Supplements and Marine/Aquaculture Food Products by Inductively Coupled Plasma-Mass Spectrometer (ICP-MS), Inductively Coupled Plasma-Optical Emission Spectrometer (ICP-OES), and Atomic Absorption Spectrometer (AAS) /Method for determination of Iron in Fortified Rice – Iron (Fe)
		Zinc	AOAC 2011.14 Minerals and Trace Elements in Milk and Milk Products, Infant Formula, and Adult Nutritionals
			EASI-CHE-SOP-044- Determination of Metals and Minerals by Inductively Coupled Plasma- Mass Spectrometer (ICP-MS), Inductively Coupled Plasma- Optical Emission Spectrometer (ICP-OES) and Atomic Absorption Spectrometer in Food Stuffs
	Fruit & Fruit Product,	Acesulfame	FSSAI Lab manual 8 Page. 65
		Acetic acid	EASI-CHE-SOP-133

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	Vegetable & Vegetable product, Jams, juices, sauces, pickles & concentrates & its products		Determination of Organic Acids by HPLC–UV
		Acid Insoluble ash	FSSAI Manual Method
		Acidity	AOAC 942.15 Acidity (Titratable) of Fruit Products
		Alcoholic Acidity	IS 12711 Bakery Products - Methods of Analysis
			IS 1009 (wheat flour) Maida for General Purposes
		Almond Allergen	EASI-CHE-SOP-236 Determination of Almond allergens by ELISA
		Anthocyanin pigment	AOAC 2005.02 Total Monomeric Anthocyanin Pigment Content of Fruit Juices, Beverages, Natural Colorants, and Wines- pH Differential Method
		Aroma	EASI-GEN-SOP-26 Procedure for Sensory Evaluation of Food samples
		Ash	AOAC 923.03 Ash of Flour
			AOAC 962.09 Fiber (Crude) in Animal Feed and Pet Food
			IFU Method 09 Determination of ash
		Aspartame	FSSAI Lab manual 8 Page. 65
		Benzoic Acid/Benzoyl Peroxide	FSSAI Lab manual 8 Page. 13
			AOAC 994.11 Benzoic acid in orange juice
		BHA	FSSAI manual 8 Page. 106
			AOAC 983.15 Phenolic Antioxidants in Oils, Fats, and Butter Oil
		BHT	FSSAI Lab manual 8 Page. 106
			AOAC 983.15 Phenolic Antioxidants in Oils, Fats, and Butter Oil
		Bostwick Viscosity	EASI-CHE-SOP-119 Use and maintenance of Bostwick Consistometer.
		Brilliant Blue	FSSAI Manual 8, HPLC-DAD

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		Bulk Density	ASTA Method 25.0 Bulk Index/Bulk Density
		Calcium carbide (as Acetylene)	EASI-CHE-SOP-186 Determination of acetylene in artificial ripening of fruit
		Carbohydrate	By Calculation/NIN Method /IS 1656
		Carbohydrates	AOAC 986.25 Proximate Analysis of Milk-Based Infant Formula
			By calculation/NIN method
		Carmoisine	FSSAI Manual 8, HPLC-DAD
		Cashew allergen	EASI-CHE-SOP-257 Determination of cashew allergens by ELISA
		Chloride	IS 11763 Cheese And Processed Cheese Products — Determination Of Chloride Content — Potentiometric Titration Method
			AOAC 2016.03 Chloride in Milk, Milk Powder, Whey Powder, Infant Formula, and Adult Nutritionals
		Cholesterol	AOAC 994.10 Cholesterol in Foods
		Citric acid	EASI-CHE-SOP-133 Determination of Organic Acids by HPLC-UV
		Container fill	FSSAI Manual-Fruit & Veg
		Crude Fibre	AOAC 962.09 Fiber (Crude) in Animal Feed and Pet Food
		Crustacean allergen	EASI-CHE-SOP-271 Determination of Crustaceans allergens by ELISA
		Description	EASI-GEN-SOP-26 Procedure for Sensory Evaluation of Food samples
		Dietary Fiber	AOAC 985.29 Total Dietary Fiber in Foods
		D-Mannitol	EASI-CHE-SOP-237 Determination of Sugar Alcohol(D-Mannitol, Maltitol ,Xylitol,

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			Isomaltose, Meso- Erythritol and Lactitol by HPLC
		Drained & Net Weight	FSSAI Manual Method
		Drained Weight	IS 2860 Methods of sampling and test for processed fruits and vegetables
		Drained weight & Net Weight	AOAC 953.15 Drained weight of Frozen Fruits
		Egg allergen	EASI-CHE-SOP-259 Determination of Egg white allergens by ELISA
		Ellagic acid	EASI-CHE-SOP-057 Determination of Ellagic acid samples
		Energy	EASI-CHE-SOP-123 Procedure for calculation of Energy value
			NIN by Gopalan (by Calculation)
		Erythritol	EASI-CHE-SOP-237 Determination of Sugar Alcohol(D-Mannitol, Maltitol ,Xylitol, Isomaltose, Meso- Erythritol and Lactitol by HPLC
		Erythrosine	FSSAI Manual 8, HPLC-DAD
		Essential Oil Content	AOAC 968.20 Oil (Recoverable) in Fruits & Fruit products
		Ethanol Content	FSSAI Manual Method
		Fast green	FSSAI Manual 8, HPLC-DAD
		Fat	AOAC 922.06 Fat in flour
		Fatty acid Profile	AOAC 996.01 Fat (Total, Saturated, Unsaturated, and Monounsaturated) in Cereal Products
		Fatty Acid Profile (Saturated Fatty Acids, Mono Unsaturated Fatty Acid, Poly Unsaturated	AOAC 996.01 Fat (Total, Saturated, Unsaturated, and Monounsaturated) in Cereal Products
		Fatty Acid and Trans Fatty Acid)	AOAC 996.06 Fat (Total, Saturated, and Unsaturated) in Foods

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			EASI-CHE-SOP-166 DETERMINATION OF THE FATTY ACID PROFILE (SATURATED, UNSATURATED, TRANS FATTY ACIDS,Ω-FATTY ACIDS) BY GAS CHROMATOGRAPH
			AOAC 2012.13 Labeled Fatty Acids Content in Milk Products, Infant Formula, and Adult/Pediatric Nutritional Formula
		Fatty Acid Profile - Saturated Fatty Acids	AOAC 996.06 Fat (Total, Saturated, and Unsaturated) in Foods
			AOAC 996.01 Fat (Total, Saturated, Unsaturated, and Monounsaturated) in Cereal Products
		Fatty Acid Profile-Mono Unsaturated Fatty Acid	ISO 5509 Animal and vegetable fats and oils — Preparation of methyl esters of fatty acids
			AOAC 996.01 Fat (Total, Saturated, Unsaturated, and Monounsaturated) in Cereal Products
			AOAC 996.06 Fat (Total, Saturated, and Unsaturated) in Foods
		Fatty Acid Profile-Poly Unsaturated Fatty Acid	ISO 5509 Animal and vegetable fats and oils — Preparation of methyl esters of fatty acids
			AOAC 996.01 Fat (Total, Saturated, Unsaturated, and Monounsaturated) in Cereal Products
			AOAC 996.06 Fat (Total, Saturated, and Unsaturated) in Foods
		Fatty Acid Profile-Trans Fatty Acid	ISO 5509 Animal and vegetable fats and oils — Preparation of methyl esters of fatty acids
			AOAC 996.01 Fat (Total, Saturated, Unsaturated, and

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			Monounsaturated) in Cereal Products
			AOAC 996.06 Fat (Total, Saturated, and Unsaturated) in Foods