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CERTIFICATE OF ACCREDITATION

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TUV SUD SOUTH ASIA PVT LTD

PLOT NO.19/1 IDA BLOCK – B, AUTO NAGAR, MINDI VILLAGE, GAJUWAKA MANDAL
VIZAG, AP, 530012, INDIA

Testing Laboratory TL-1079

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 June 20, 2025



International Accreditation Service
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www.tuvsud.com/in

Contact Name Pallavi Muliki

Contact Phone +919492069396

Accredited to ISO/IEC 17025:2017

Effective Date June 20, 2025

FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
Biological: Food & Agricultural products	Meat & Meat Products	Aerobic Plate Count	Chapter 3, FDA- BAM 2001
		Test Parameter: - Aerobic plate count /Total plate count/Mesophilic aerobic microorganisms (Pour plate method)	
		Microbiology of the food chain — Horizontal method for the enumeration of microorganisms — Part 1: Colony count at 30 °C by the pour plate technique	ISO 4833-1-2013
		Test Parameter - Aerobic plate count /Total plate count/Mesophilic aerobic microorganisms	
		Enumeration of Escherichia coli and the Coliform Bacteria	Chapter 4, FDA- BAM ,2020
		Test Parameter: E. coli (Pour plate method & MPN method)	
		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 – 2 2001
		Test Parameter: E. coli	
		Microbiology of the food chain — Horizontal method	ISO 16649-3-2015

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Biological: Food & Agricultural products (cont'd.)	Meat & Meat Products (cont'd.)	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 Test Parameter: E. coli	
		Methods for Detection of Bacteria Responsible for Food Poisoning, Part 1: Isolation, Identification and Enumeration of Escherichia Coli Test Parameter: E. coli	IS 5887 (Part 1) 1976(Reaffirmed 2022)
		Enumeration of Escherichia coli and the Coliform Bacteria Test Parameter: Coliforms (Pour plate method & MPN method)	Chapter 4, FDA- BAM ,2020
		Microbiology of food and animal feeding stuffs — Horizontal method for the detection and enumeration of coliforms — Most probable number technique Test Parameter: Coliforms	ISO 4831 :2006
		Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of coliforms — Colony-count technique Test Parameter: Coliforms	ISO 4832:2006
		Staphylococcus aureus Test Parameter: S. aureus (Spread Plate count method)	Chapter 12, FDA- BAM,2016
		Microbiology of the food chain — Horizontal method for the enumeration of coagulase-positive staphylococci	ISO 6888-1-2021

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Biological: Food & Agricultural products (cont'd.)	Meat & Meat Products (cont'd.)	(Staphylococcus aureus and other species) — Part 1: Method using Baird-Parker agar medium Test Parameter: S. aureus (Spread Plate count method)	
		Methods for detection of bacteria responsible for food poisoning part ii isolation, identification, and enumeration of staphylococcus aureus and faecal streptococci Test Parameter: S. aureus (Spread Plate count method)	IS 5887 (Part 2) 1976 (Reaffirmed 2022)
		Methods for Detection of Bacteria Responsible for Food Poisoning, Part 8: Horizontal Method for Enumeration of Coagulase-Positive Staphylococci (Staphylococcus Aureus and other Species), Section 1: Technique Using Baird-Parker Agar Medium Test Parameter: S. aureus (Spread Plate count method)	IS 5887(P-8/sec-1) 2002(Reaffirmed 2022)
		Microbiology of the food chain — Horizontal method for the detection, enumeration and serotyping of Salmonella — Part 1: Detection of Salmonella spp. Test Parameter: Salmonella	ISO 6579-1-2017
		Salmonella Test Parameter: Salmonella	Chapter 5, FDA- BAM 2024
		Detection of Salmonella	2013.01, Chapter 17, AOAC 22 nd Edition (Salmonella in a

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Biological: Food & Agricultural products (cont'd.)	Meat & Meat Products (cont'd.)	Test Parameter: Salmonella	Variety of Foods VIDAS UP Salmonella -SPT Method)
		Yeasts and Molds	Chapter 18, US FDA BAM 2001
		Test Parameter: Yeast and Mould (Spread plate method)	
		Method for yeast and mould count of food stuffs and animal feed	IS 5403-1999 (Reaffirmed 2018)
		Test Parameter: Yeast and Mould	
		Detection of Listeria monocytogenes in Foods and Environmental Samples, and Enumeration of Listeria monocytogenes in Foods	Chapter 10, FDA- BAM 2022
		Test Parameter: Listeria monocytogenes (Detection)	
		Microbiology of food and feeding stuffs — horizontal method for detection and enumeration of listeria monocytogenes Part 1 Detection method	IS 14988 (Part 1)2020
		Test Parameter: Listeria monocytogenes	
		Microbiology of the food chain — Horizontal method for the detection and enumeration of Listeria monocytogenes and of Listeria spp. — Part 1: Detection method	ISO 11290-1 2017
		Test Parameter: Listeria spp / Listeria monocytogenes	
		Detection of Listeria monocytogenes	2004.02, Chapter 17 AOAC, 22 nd Edition (Listeria monocytogenes in Foods VIDAS Listeria monocytogenes II -LMO2)
		Test Parameter: Listeria monocytogenes	



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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
Biological: Food & Agricultural products (cont'd.)	Meat & Meat Products (cont'd.)	Methods for detection of bacteria responsible for food poisoning part 4: isolation and identification of <i>Clostridium perfringens</i> (<i>Clostridium welchii</i>) and <i>Clostridium botulinum</i> and enumeration of <i>Clostridium perfringens</i> Test Parameter: <i>Clostridium perfringens</i>	IS 5887(Part 4)1999 (Reaffirmed 2022)
		Microbiology of the food chain – Horizontal method for the detection and enumeration of <i>Clostridium</i> spp. – Part 2: Enumeration of <i>Clostridium perfringens</i> by colony-count technique	ISO 15213-2:2023
		<i>Clostridium perfringens</i> Test Parameter: <i>Clostridium perfringens</i>	Chapter 16, FDA- BAM 2001
		Methods for detection of bacteria responsible for food poisoning part 7: General guidance on methods for isolation and identification of shigella Test Parameter: Shigella	IS 5887 (Part 7) 1999(Reaffirmed 2022)
		Microbiology of food and animal feeding stuffs — Horizontal methods for the detection and enumeration of Enterobacteriaceae — Part 2: Colony-count method Test Parameter: Enterobacteriaceae	ISO 21528 – 2-2017
		Canned Meat products- Commercial sterility Test Parameter: Incubation Test @37 deg for 10 days Test Parameter: Incubation Test @55 deg for 7 days	Chapter 61.4, Compendium of Methods for the Microbiological Examination of Foods, APHA 5th Edition

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
Biological: Food & Agricultural products (cont'd.)	Poultry & Poultry Products	Aerobic Plate Count Test Parameter: - Aerobic plate count /Total plate count/Mesophilic aerobic microorganisms (Pour plate count)	Chapter 3, FDA- BAM 2001
		Microbiology of the food chain — Horizontal method for the enumeration of microorganisms — Part 1: Colony count at 30 °C by the pour plate technique Test Parameter - Aerobic plate count /Total plate count/Mesophilic aerobic microorganisms	ISO 4833-1-2013
		Enumeration of Escherichia coli and the Coliform Bacteria Test Parameter: E. coli (Pour plate method & MPN method)	Chapter 4, FDA- BAM ,2020
		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 Test Parameter: E. coli	ISO 16649 – 2 2001
		Methods for Detection of Bacteria Responsible for Food Poisoning, Part 1: Isolation, Identification and Enumeration of Escherichia Coli Test Parameter: E. coli	IS 5887 (Part 1) 1976(Reaffirmed 2022)

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Biological: Food & Agricultural products (cont'd.)	Poultry & Poultry Products (cont'd.)	Enumeration of Escherichia coli and the Coliform Bacteria Test Parameter: Coliforms (Pour plate method & MPN method)	Chapter 4, FDA- BAM ,2020
		Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of coliforms — Colony-count technique Test Parameter: Coliforms	ISO 4832:2006
		Microbiology — general guidance for the enumeration of coliforms part 1 colony count technique Test Parameter: Coliforms	IS 5401-1-2012 (Reaffirmed 2022)
		Staphylococcus aureus Test Parameter: S. aureus (Spread Plate count method)	Chapter 12, FDA- BAM,2016
		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 Test Parameter: S. aureus (Spread Plate count method)	ISO 6888-1-2021
		Methods for detection of bacteria responsible for food poisoning part ii isolation, identification, and enumeration of staphylococcus aureus and faecal streptococci	IS 5887 (Part 2) 1976(Reaffirmed 2022)

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Biological: Food & Agricultural products (cont'd.)	Poultry & Poultry Products (cont'd.)	Test Parameter: S. aureus (Spread Plate count method)	
		Methods for Detection of Bacteria Responsible for Food Poisoning, Part 8: Horizontal Method for Enumeration of Coagulase-Positive Staphylococci (Staphylococcus Aureus and other Species), Section 1: Technique Using Baird-Parker Agar Medium Test Parameter: S. aureus (Spread Plate count method)	IS 5887(P-8/sec-1) 2002(Reaffirmed 2022)
		Microbiology of the food chain — Horizontal method for the detection, enumeration and serotyping of Salmonella — Part 1: Detection of Salmonella spp. Test Parameter: Salmonella	ISO 6579-1-2017
		Methods for detection of bacteria responsible for food poisoning part3 general guidance on methods for the detection of salmonella Test Parameter: Salmonella	IS 5887(Part 3) sec 1 -2020
		Salmonella Test Parameter: Salmonella	Chapter 5, FDA- BAM 2024
		Detection of Salmonella Test Parameter: Salmonella	2013.01, Chapter 17, AOAC 22 nd Edition (Salmonella in a Variety of Foods VIDAS UP Salmonella -SPT Method)
		Yeasts and Molds Test Parameter: Yeast and Mould (Spread plate method)	Chapter 18, US FDA BAM 2001

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Biological: Food & Agricultural products (cont'd.)	Poultry & Poultry Products (cont'd.)	Method for yeast and Mould count of food stuffs and animal feed Test Parameter: Yeast and Mould	IS 5403-1999 (Reaffirmed 2018)
		Detection of Listeria monocytogenes in Foods and Environmental Samples, and Enumeration of Listeria monocytogenes in Foods Test Parameter: Listeria monocytogenes (Detection)	Chapter 10, FDA- BAM 2022
		Listeria monocytogenes in Foods VIDAS Listeria monocytogenes II -LMO2 – Rapid Analysis. Test Parameter: Listeria monocytogenes	2004.02, Chapter 17 AOAC, 22 nd Edition (Listeria monocytogenes in Foods VIDAS Listeria monocytogenes II -LMO2)
		Microbiology of food and feeding stuffs — horizontal method for detection and enumeration of listeria monocytogenes Part 1 Detection method Test Parameter: Listeria monocytogenes	IS 14988 (Part 1)2020
		Microbiology of the food chain — Horizontal method for the detection and enumeration of Listeria monocytogenes and of Listeria spp. — Part 1: Detection method Test Parameter: Listeria spp / Listeria monocytogenes	ISO 11290-1 2017
		Methods for detection of bacteria responsible for food poisoning part 4: isolation and identification of Clostridium perfringens (Clostridium welchii) and	IS 5887(Part 4)1999 (Reaffirmed 2022)

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Biological: Food & Agricultural products (cont'd.)	Poultry & Poultry Products (cont'd.)	Clostridium botulinum and enumeration of Clostridium perfringens Test Parameter: Clostridium perfringens	
		Microbiology of the food chain – Horizontal method for the detection and enumeration of <i>Clostridium</i> spp. – Part 2: Enumeration of <i>Clostridium perfringens</i> by colony-count technique	ISO 15213-2:2023
		Methods for detection of bacteria responsible for food poisoning part 7: General guidance on methods for isolation and identification of shigella Test Parameter: Shigella	IS 5887 (Part 7) 1999(Reaffirmed 2022)
		Microbiology of the food chain — Horizontal method for the detection and enumeration of Enterobacteriaceae — Part 1: Detection of Enterobacteriaceae Test Parameter: Enterobacteriaceae	ISO 21528 – 2-2017
		Canned Meat products- Commercial sterility Test Parameter: Incubation Test @37 deg for 10 days Test Parameter: Incubation Test @55 deg for 7 days	Chapter 61.4, Compendium of Methods for the Microbiological Examination of Foods, APHA 5th Edition
	Vegetables & Vegetables Products	Aerobic Plate Count Test Parameter: - Aerobic plate count /Total plate count/Mesophilic aerobic microorganisms Microbiology of the food chain — Horizontal method for the enumeration of	Chapter 3, FDA- BAM 2001 ISO 4833-1-2013

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Biological: Food & Agricultural products (cont'd.)	Vegetables & Vegetables Products (cont'd.)	microorganisms — Part 1: Colony count at 30 °C by the pour plate technique Test Parameter - Aerobic plate count /Total plate count/Mesophilic aerobic microorganisms	
		Microbiology of food and animal feeding stuffs — horizontal method for the enumeration of microorganisms — colony-count technique at 30°C Test Parameter: - Aerobic plate count /Total plate count/Mesophilic aerobic microorganisms	IS 5402:2012 (Reaffirmed 2018)
		Enumeration of Escherichia coli and the Coliform Bacteria Test Parameter: E. coli (Pour plate method & MPN method)	Chapter 4, FDA- BAM ,2020
		Methods for Detection of Bacteria Responsible for Food Poisoning, Part 1: Isolation, Identification and Enumeration of Escherichia Coli Test Parameter: E. coli	IS 5887 (Part 1) 1976(Reaffirmed 2022)
		Enumeration of Escherichia coli and the Coliform Bacteria Test Parameter: Coliforms (Pour plate method & MPN method)	Chapter 4, FDA- BAM ,2020
		Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of coliforms — Colony-count technique Test Parameter: Coliforms	ISO 4832:2006

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Biological: Food & Agricultural products (cont'd.)	Vegetables & Vegetables Products (cont'd.)	Microbiology — general guidance for the enumeration of coliforms part 1 colony count technique Test Parameter: Coliforms	IS 5401-1-2012 (Reaffirmed 2022)
		Staphylococcus aureus Test Parameter: S. aureus (Spread Plate count method)	Chapter 12, FDA- BAM,2016
		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 Test Parameter: S. aureus (Spread Plate count method)	ISO 6888-1-2021
		Methods for detection of bacteria responsible for food poisoning part ii isolation, identification, and enumeration of staphylococcus aureus and faecal streptococci Test Parameter: S. aureus (Spread Plate count method)	IS 5887 (Part 2) 1976(Reaffirmed 2022)
		Methods for Detection of Bacteria Responsible for Food Poisoning, Part 8: Horizontal Method for Enumeration of Coagulase-Positive Staphylococci (Staphylococcus Aureus and other Species), Section 1: Technique Using Baird-Parker Agar Medium Test Parameter: S. aureus	IS 5887(P-8/sec-1) 2002(Reaffirmed 2022)

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Biological: Food & Agricultural products (cont'd.)	Vegetables & Vegetables Products (cont'd.)	(Spread Plate count method)	
		Microbiology of the food chain — Horizontal method for the detection, enumeration and serotyping of Salmonella — Part 1: Detection of Salmonella spp. Test Parameter: Salmonella	ISO 6579-1-2017
		Methods for detection of bacteria responsible for food poisoning part3 general guidance on methods for the detection of salmonella Test Parameter: Salmonella	IS 5887(Part 3) sec -1- 2020
		Salmonella Test Parameter: Salmonella	Chapter 5, FDA- BAM 2024
		Detection of Salmonella Test Parameter: Salmonella	2013.01, Chapter 17, AOAC 22 nd Edition (Salmonella in a Variety of Foods VIDAS UP Salmonella -SPT Method)
		Yeasts and Molds Test Parameter: Yeast and Mould (Spread plate method)	Chapter 18, US FDA BAM 2001
		Method for yeast and mould count of food stuffs and animal feed Test Parameter: Yeast and Mould	IS 5403-1999 (Reaffirmed 2018)
		Methods for detection of bacteria responsible for food poisoning, Part 5: Isolation, identification, and enumeration of Vibrio cholerae and Vibrio paraheamolyticus	IS 5887(Part 5) 1976 (Reaffirmed 2018)

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Biological: Food & Agricultural products (cont'd.)	Vegetables & Vegetables Products (cont'd.)	Test Parameter: <i>Vibrio cholerae</i>	
		<i>Vibrio</i>	Chapter 09, FDA – BAM
		Test Parameter: <i>Vibrio cholera</i>	
		Detection of <i>Listeria monocytogenes</i> in Foods and Environmental Samples, and Enumeration of <i>Listeria monocytogenes</i> in Foods	Chapter 10, FDA- BAM 2022
		Test Parameter: <i>Listeria monocytogenes</i> (Detection)	
		Microbiology of food and feeding stuffs — horizontal method for detection and enumeration of <i>Listeria monocytogenes</i> Part 1 Detection method	IS 14988 (Part 1)2020
		Test Parameter: <i>Listeria monocytogenes</i>	
		Microbiology of the food chain — Horizontal method for the detection and enumeration of <i>Listeria monocytogenes</i> and of <i>Listeria</i> spp. — Part 1: Detection method	ISO 11290-1 2017
		Test Parameter: <i>Listeria</i> spp / <i>Listeria monocytogenes</i>	
		Detection of <i>Listeria monocytogenes</i>	2004.02, Chapter 17 AOAC, 22 nd Edition (<i>Listeria monocytogenes</i> in Foods VIDAS <i>Listeria monocytogenes</i> II -LMO2)
		Test Parameter: <i>Listeria monocytogenes</i>	
		Methods for detection of bacteria responsible for food poisoning part 4: isolation and identification of <i>Clostridium perfringens</i> (<i>Clostridium welchii</i>) and <i>Clostridium botulinum</i> and	IS 5887(Part 4)1999 (Reaffirmed 2022)

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Biological: Food & Agricultural products (cont'd.)	Vegetables & Vegetables Products (cont'd.)	enumeration of <i>Clostridium perfringens</i> Test Parameter: <i>Clostridium perfringens</i>	
		<i>Bacillus cereus</i> Test Parameter: <i>Bacillus cereus</i>	Chapter 14, US FDA BAM
		Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of presumptive <i>Bacillus cereus</i> — Colony-count technique at 30 degrees C Test Parameter: <i>Bacillus cereus</i>	ISO 7932:2004
		Microbiology of food and animal feeding stuffs — horizontal method for the enumeration of presumptive <i>Bacillus cereus</i> part 6 colony-count technique at 30°C Test Parameter: <i>Bacillus cereus</i>	IS 5887-6 :2012 (Reaffirmed 2022)
		Microbiology of the food chain – Horizontal method for the detection and enumeration of <i>Clostridium</i> spp. – Part 2: Enumeration of <i>Clostridium perfringens</i> by colony-count technique	ISO 15213-2:2023
		<i>Clostridium perfringens</i> Test Parameter: <i>Clostridium perfringens</i>	Chapter 16, FDA- BAM 2001
		Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of Lactic acid bacteria colony count technique @ 30 degree	ISO 15214 :1998

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Biological: Food & Agricultural products (cont'd.)	Vegetables & Vegetables Products (cont'd.)	Test Parameter: Lactic acid bacteria	
	Other specified food items -Raw, cooked Foods & Ready to eat	Aerobic Plate Count Test Parameter: - Aerobic plate count /Total plate count/Mesophilic aerobic microorganisms	Chapter 3, FDA- BAM 2001
		Microbiology of the food chain — Horizontal method for the enumeration of microorganisms — Part 1: Colony count at 30 °C by the pour plate technique Test Parameter - Aerobic plate count /Total plate count/Mesophilic aerobic microorganisms	ISO 4833-1-2013
		Microbiology of food and animal feeding stuffs — horizontal method for the enumeration of micro-organisms — colony-count technique at 30°C Test Parameter: - Aerobic plate count /Total plate count/Mesophilic aerobic microorganisms	IS 5402-2012 (Reaffirmed 2018)
		Enumeration of Escherichia coli and the Coliform Bacteria Test Parameter: E. coli (Pour plate method & MPN method)	Chapter 4, FDA- BAM ,2020
		Methods for Detection of Bacteria Responsible for Food Poisoning, Part 1: Isolation, Identification and Enumeration of Escherichia Coli Test Parameter: E. coli	IS 5887 (Part 1) 1976 (Reaffirmed 2022)

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Biological: Food & Agricultural products (cont'd.)	Other specified food items -Raw, cooked Foods & Ready to eat (cont'd.)	Enumeration of Escherichia coli and the Coliform Bacteria Test Parameter: Coliforms (Pour plate method & MPN method)	Chapter 4, FDA- BAM ,2020
		Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of coliforms — Colony-count technique Test Parameter: Coliforms	ISO 4832:2006
		Microbiology — general guidance for the enumeration of coliforms part 1 colony count technique Test Parameter: Coliforms	IS 5401-1-2012
		Methods for detection of bacteria responsible for food poisoning part 7: General guidance on methods for isolation and identification of shigella Test Parameter: Shigella	IS 5887 (Part 7) 1999 (Reaffirmed 2022)
		Staphylococcus aureus Test Parameter: S. aureus (Spread Plate count method)	Chapter 12, FDA- BAM,2016
		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 Test Parameter: S. aureus (Spread Plate count method)	ISO 6888-1-2021

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Biological: Food & Agricultural products (cont'd.)	Other specified food items -Raw, cooked Foods & Ready to eat (cont'd.)	Methods for detection of bacteria responsible for food poisoning part ii isolation, identification, and enumeration of staphylococcus aureus and faecal streptococci Test Parameter: S. aureus (Spread Plate count method)	IS 5887 (Part 2) 1976
		Methods for Detection of Bacteria Responsible for Food Poisoning, Part 8: Horizontal Method for Enumeration of Coagulase-Positive Staphylococci (Staphylococcus Aureus and other Species), Section 1: Technique Using Baird-Parker Agar Medium Test Parameter: S. aureus (Spread Plate count method)	IS 5887(P-8/sec-1) 2002(Reaffirmed 2022)
		Microbiology of the food chain — Horizontal method for the detection, enumeration and serotyping of Salmonella — Part 1: Detection of Salmonella spp. Test Parameter: Salmonella	ISO 6579-1-2017
		Methods for detection of bacteria responsible for food poisoning part3 general guidance on methods for the detection of salmonella Test Parameter: Salmonella	IS 5887(Part 3) sec-1:2020
		Salmonella Test Parameter: Salmonella	Chapter 5, FDA- BAM 2024

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Biological: Food & Agricultural products (cont'd.)	Other specified food items -Raw, cooked Foods & Ready to eat (cont'd.)	Detection of Salmonella	2013.01, Chapter 17, AOAC 22 nd Edition (Salmonella in a Variety of Foods VIDAS UP Salmonella -SPT Method)
		Test Parameter: Salmonella	
		Yeasts and Molds	Chapter 18, US FDA BAM 2001
		Test Parameter: Yeast and Mould (Spread plate method)	
		Method for yeast and mould count of food stuffs and animal feed	IS 5403-1999 (Reaffirmed 2018)
		Test Parameter: Yeast and Mould	
		Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of presumptive <i>Bacillus cereus</i> — Colony-count technique at 30 degrees C	ISO 7932:2004
		Test Parameter: <i>Bacillus cereus</i>	
		Microbiology of food and animal feeding stuffs — horizontal method for the enumeration of presumptive <i>Bacillus cereus</i> part 6 colony-count technique at 30°C	IS 5887-6 :2012(Reaffirmed 2022)
		Test Parameter: <i>Bacillus cereus</i>	
		Test Parameter: <i>Bacillus cereus</i>	Chapter 14, FDA BAM 2020
		Detection of <i>Listeria monocytogenes</i> in Foods and Environmental Samples, and Enumeration of <i>Listeria monocytogenes</i> in Foods	Chapter 10, FDA- BAM 2022
		Test Parameter: <i>Listeria monocytogenes</i> (Detection)	

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Biological: Food & Agricultural products (cont'd.)	Other specified food items -Raw, cooked Foods & Ready to eat (cont'd.)	Microbiology of food and feeding stuffs — horizontal method for detection and enumeration of listeria monocytogenes Part 1 Detection method Test Parameter: Listeria monocytogenes	IS 14988 (Part 1)2020
		Microbiology of the food chain — Horizontal method for the detection and enumeration of Listeria monocytogenes and of Listeria spp. — Part 1: Detection method Test Parameter: Listeria spp / Listeria monocytogenes	ISO 11290-1 2017
		Detection of Listeria monocytogenes Test Parameter: Listeria monocytogenes	2004.02, Chapter 17 AOAC, 22 nd Edition (Listeria monocytogenes in Foods VIDAS Listeria monocytogenes II -LMO2)
		Methods for detection of bacteria responsible for food poisoning part 4: isolation and identification of Clostridium perfringens (Clostridium welchii) and Clostridium botulinum and enumeration of Clostridium perfringens Test Parameter: Clostridium perfringens	IS 5887(Part 4)1999 (Reaffirmed 2022)
		Microbiology of the food chain – Horizontal method for the detection and enumeration of <i>Clostridium</i> spp. – Part 2: Enumeration of <i>Clostridium perfringens</i> by colony-count technique	ISO 15213-2:2023

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Biological: Food & Agricultural products (cont'd.)	Other specified food items -Raw, cooked Foods & Ready to eat (cont'd.)	Clostridium perfringens Test Parameter: Clostridium perfringens	Chapter 16, FDA- BAM 2001
		Methods for detection of bacteria responsible for food poisoning part 7: General guidance on methods for isolation and identification of shigella Test Parameter: Shigella	IS 5887 (Part 7) 1999 (Reaffirmed 2022)
		Microbiology of the food chain — Horizontal method for the detection and enumeration of Enterobacteriaceae — Part 1: Detection of Enterobacteriaceae Test Parameter: Enterobacteriaceae	ISO 21528 – 2-2017
		Methods for detection of bacteria responsible for food poisoning, Part 5: Isolation, identification, and enumeration of Vibrio cholerae and Vibrio parahaemolyticus Test Parameter: Vibrio cholerae	IS 5887(Part 5)1976(Reaffirmed 2018)
		Vibrio Test Parameter: Vibrio cholerae	Chapter 09, FDA – BAM
	Beverages – (Alcoholic/Nonalcoholic)	Aerobic Plate Count Test Parameter: - Aerobic plate count /Total plate count/Mesophilic aerobic microorganisms (Pour plate method)	Chapter 3, FDA- BAM 2001
		Microbiology of the food chain — Horizontal method for the enumeration of microorganisms — Part 1:	ISO 4833-1-2014

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Biological: Food & Agricultural products (cont'd.)	Beverages – (Alcoholic/Nonalcoholic) (cont'd.)	Colony count at 30 °C by the pour plate technique	
		Test Parameter - Aerobic plate count /Total plate count/Mesophilic aerobic microorganisms	
		Microbiology of food and animal feeding stuffs — horizontal method for the enumeration of microorganisms — colony-count technique at 30°C	IS 5402:2012 (Reaffirmed 2018)
		Test Parameter: - Aerobic plate count /Total plate count/Mesophilic aerobic microorganisms	
		Enumeration of Escherichia coli and the Coliform Bacteria	Chapter 4, FDA- BAM ,2020
		Test Parameter: E. coli (Pour plate method)	
		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 – 2 2001
		Test Parameter: E. coli	
		Methods for Detection of Bacteria Responsible for Food Poisoning, Part 1: Isolation, Identification and Enumeration of Escherichia Coli	IS 5887 (Part 1) 1976 (Reaffirmed 2022)
		Test Parameter: E. coli Detection	

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Biological: Food & Agricultural products (cont'd.)	Beverages – (Alcoholic/Nonalcoholic) (cont'd.)	Enumeration of Escherichia coli and the Coliform Bacteria Test Parameter: Coliforms (Enumeration)	Chapter 4, FDA- BAM ,2020
		Microbiology of food and animal feeding stuffs — Horizontal method for the detection and enumeration of coliforms — Most probable number technique Test Parameter: Coliforms	ISO 4831 :2006
		Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of coliforms — Colony-count technique Test Parameter: Coliforms	ISO 4832:2006
		Microbiology Of Food And Animal Feeding Stuffs — Horizontal Method For The Detection And Enumeration Of Coliforms Part 2 Most Probable Number Technique Test Parameter: Coliforms (MPN)	IS 5401-2-2012
		Microbiology — general guidance for the enumeration of coliforms part 1 colony count technique Test Parameter: Coliforms	IS 5401-1-2012
		Yeasts and Molds Test Parameter: Yeast and Mould (Spread plate method)	Chapter 18, US FDA BAM 2001
		Method for yeast and mould count of food stuffs and animal feed	IS 5403-1999 (Reaffirmed 2018)

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Biological: Food & Agricultural products (cont'd.)	Beverages – (Alcoholic/Nonalcoholic) (cont'd.)	Test Parameter: Yeast and Mould	
		Staphylococcus aureus	Chapter 12, FDA- BAM,2016
		Test Parameter: S. aureus (Spread Plate count method)	
		Microbiology of the food chain — Horizontal method for the enumeration of coagulase-positive staphylococci (Staphylococcus aureus and other species) — Part 1: Method using Baird-Parker agar medium	ISO 6888-1-2021
		Test Parameter: S. aureus (Spread Plate count method)	
		Methods for detection of bacteria responsible for food poisoning part ii isolation, identification, and enumeration of staphylococcus aureus and faecal streptococci	IS 5887 (Part 2) 1976(Reaffirmed 2022)
		Test Parameter: S. aureus (Spread Plate count method)	
		Methods for Detection of Bacteria Responsible for Food Poisoning, Part 8: Horizontal Method for Enumeration of Coagulase-Positive Staphylococci (Staphylococcus Aureus and other Species), Section 1: Technique Using Baird-Parker Agar Medium	IS 5887(P-8/sec-1) 2002(Reaffirmed 2022)
		Test Parameter: S. aureus (Spread Plate count method)	
		Microbiology of the food chain — Horizontal method for the detection, enumeration and	ISO 6579-1-2017

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Biological: Food & Agricultural products (cont'd.)	Beverages – (Alcoholic/Nonalcoholic) (cont'd.)	serotyping of Salmonella — Part 1: Detection of Salmonella spp. Test Parameter: Salmonella	
		Methods for detection of bacteria responsible for food poisoning part3 general guidance on methods for the detection of salmonella Test Parameter: Salmonella	IS 5887(Part 3) sec-1: 2020
		Detection of Salmonella Test Parameter: Salmonella	Chapter 5, FDA- BAM 2024
		Detection of Salmonella Rapid analysis Test Parameter: Salmonella	2013.01, Chapter 17, AOAC 22 nd Edition (Salmonella in a Variety of Foods VIDAS UP Salmonella -SPT Method)
		Shigella Test Parameter: Shigella	Chapter 6, FDA- BAM 2023
		Methods for detection of bacteria responsible for food poisoning part 7: General guidance on methods for isolation and identification of shigella Test Parameter: Shigella	IS 5887 (Part 7) 1999(Reaffirmed 2022)
		Detection of Listeria monocytogenes in Foods and Environmental Samples, and Enumeration of Listeria monocytogenes in Foods Test Parameter: Listeria monocytogenes (Detection)	Chapter 10, FDA- BAM 2020
		Microbiology of food and feeding stuffs — horizontal method for detection and	IS 14988 (Part 1)2020

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Biological: Food & Agricultural products (cont'd.)	Beverages – (Alcoholic/Nonalcoholic) (cont'd.)	enumeration of listeria monocytogenes Part 1 Detection method Test Parameter: Listeria monocytogenes	
		Microbiology of the food chain — Horizontal method for the detection and enumeration of Listeria monocytogenes and of Listeria spp. — Part 1: Detection method Test Parameter: Listeria spp / Listeria monocytogenes	ISO 11290-1 2017
		Detection of Listeria Test Parameter: Listeria monocytogenes	2004.02, Chapter 17 AOAC, 22 nd Edition (Listeria monocytogenes in Foods VIDAS Listeria monocytogenes II -LMO2)
		Methods for detection of bacteria responsible for food poisoning, Part 5: Isolation, identification, and enumeration of Vibrio cholerae and Vibrio parahaemolyticus Test Parameter: Vibrio cholerae	IS 5887(Part 5)1976 (Reaffirmed 2018)
		Bacillus cereus Test Parameter: Bacillus cereus	Chapter 14, US FDA BAM
		Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of presumptive Bacillus cereus — Colony-count technique at 30 degrees C Test Parameter: Bacillus cereus	ISO 7932 2004

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
	Beverages – (Alcoholic/Nonalcoholic) (cont'd.)	Aciduric Flat sour Spore formers Test Parameter: Aciduric Flat sour spore formers	Chapter 25.61, 25.62, 25.63 & APHA 5th Edition 2015
		Method of sampling & Test for Processed Fruits & Vegetables Products - Test Parameter: Incubation Test @37 deg for 10 days Test Parameter: Incubation Test @55 deg for 7 days	IS 2860 1964 (Reaffirmed 2018)



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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.

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Biological: Food & Agricultural products (cont'd.)	Cereals, Pulses & Cereals Products	Aerobic Plate Count Test Parameter: - Aerobic plate count /Total plate count/Mesophilic aerobic microorganisms (Pour plate method)	Chapter 3, FDA- BAM 2001
		Microbiology of the food chain — Horizontal method for the enumeration of microorganisms — Part 1: Colony count at 30 °C by the pour plate technique Test Parameter - Aerobic plate count /Total plate count/Mesophilic aerobic microorganisms	ISO 4833-1-2013
		Microbiology of food and animal feeding stuffs — horizontal method for the enumeration of microorganisms — colony-count technique at 30°C Test Parameter: - Aerobic plate count /Total plate count/Mesophilic aerobic microorganisms	IS 5402: 2012(Reaffirmed 2018)
		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-	ISO 16649 – 2 2001

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Biological: Food & Agricultural products (cont'd.)	Cereals, Pulses & Cereals Products (cont'd.)	bromo-4-chloro-3-indolyl beta-D-glucuronide Test Parameter: E. coli	
		Methods for Detection of Bacteria Responsible for Food Poisoning, Part 1: Isolation, Identification and Enumeration of Escherichia Coli Test Parameter: E. coli (Detection)	IS 5887 (Part 1) 1976(Reaffirmed 2022)
		Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of coliforms — Colony-count technique Test Parameter: Coliforms	ISO 4832:2006
		Microbiology Of Food And Animal Feeding Stuffs — Horizontal Method For The Detection And Enumeration Of Coliforms Part 2 Most Probable Number Technique Test Parameter: Coliforms (Detection)	IS 5401-2-2012 (Reaffirmed 2022)
		Microbiology — general guidance for the enumeration of coliforms part 1 colony count technique Test Parameter: Coliforms	IS 5401-1-2012 (Reaffirmed 2022)
		Staphylococcus aureus Test Parameter: S. aureus	Chapter 12, FDA- BAM,2016
		Microbiology of the food chain — Horizontal method for the enumeration of coagulase-positive staphylococci (Staphylococcus aureus and other species) — Part	ISO 6888-1-2021

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Biological: Food & Agricultural products (cont'd.)	Cereals, Pulses & Cereals Products (cont'd.)	1: Method using Baird-Parker agar medium Test Parameter: <i>S. aureus</i> (Spread Plate count method)	
		Methods for detection of bacteria responsible for food poisoning part ii isolation, identification, and enumeration of staphylococcus aureus and faecal streptococci Test Parameter: <i>S. aureus</i> (Spread Plate count method)	IS 5887 (Part 2) 1976 (Reaffirmed 2022)
		Methods for Detection of Bacteria Responsible for Food Poisoning, Part 8: Horizontal Method for Enumeration of Coagulase-Positive Staphylococci (<i>Staphylococcus Aureus</i> and other Species), Section 1: Technique Using Baird-Parker Agar Medium Test Parameter: <i>S. aureus</i> (Spread Plate count method)	IS 5887(P-8/sec-1) 2002(Reaffirmed 2022)
		Microbiology of the food chain — Horizontal method for the detection, enumeration and serotyping of <i>Salmonella</i> — Part 1: Detection of <i>Salmonella</i> spp. Test Parameter: <i>Salmonella</i>	ISO 6579-1-2017
		Methods for detection of bacteria responsible for food poisoning part3 general guidance on methods for the detection of salmonella	IS 5887(Part 3) sec-1:2020

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Biological: Food & Agricultural products (cont'd.)	Cereals, Pulses & Cereals Products (cont'd.)	Test Parameter: Salmonella	
		Salmonella	Chapter 5, FDA- BAM 2024
		Test Parameter: Salmonella	
		Detection of Salmonella	2013.01, Chapter 17, AOAC 22 nd Edition (Salmonella in a Variety of Foods VIDAS UP Salmonella -SPT Method)
		Test Parameter: Salmonella	
		Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of yeasts and moulds — Part 2: Colony count technique in products with water activity less than or equal to 0,95	ISO 21527-2:2008
		Test Parameter: Yeast and Mould	
		Method for yeast and mould count of food stuffs and animal feed	IS 5403-1999 (Reaffirmed 2018)
		Test Parameter: Yeast and Mould	
		Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of presumptive <i>Bacillus cereus</i> — Colony-count technique at 30 degrees C	ISO 7932:2004
		Test Parameter: <i>Bacillus cereus</i>	
		Microbiology of food and animal feeding stuffs — horizontal method for the enumeration of presumptive <i>bacillus cereus</i> part 6 colony-count technique at 30°C	IS 5887-6 :2012(Reaffirmed 2022)
		Test Parameter: <i>Bacillus cereus</i>	

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Biological: Food & Agricultural products (cont'd.)	Cereals, Pulses & Cereals Products (cont'd.)	Shigella	Chapter 6, FDA- BAM
		Test Parameter: Shigella	
		Methods for detection of bacteria responsible for food poisoning part 7: General guidance on methods for isolation and identification of shigella	IS 5887 (Part 7) 1999(Reaffirmed 2022)
		Test Parameter: Shigella	
		Microbiology of the food chain — Horizontal method for the detection and enumeration of Enterobacteriaceae — Part 1: Detection of Enterobacteriaceae	ISO 21528 – 2-2017
		Test Parameter: Enterobacteriaceae	
		Methods for detection of bacteria responsible for food poisoning part ii isolation, identification, and enumeration of staphylococcus aureus and faecal streptococci	IS 5887 (Part 2)1976(Reaffirmed 2022)
		Test Parameter: faecal streptococci	
		Methods for detection of bacteria responsible for food poisoning, Part 5: Isolation, identification, and enumeration of Vibrio cholerae and Vibrio paraheamolyticus	IS 5887(Part 5) 1976(Reaffirmed 2018)
		Test Parameter: Vibrio cholerae	
		Methods for detection of bacteria responsible for food poisoning, Part 5: Isolation, identification, and enumeration of Vibrio	IS 5887(Part 5) 1976(Reaffirmed 2018)

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Biological: Food & Agricultural products (cont'd.)	Cereals, Pulses & Cereals Products (cont'd.)	cholerae and Vibrio parahaemolyticus Test Parameter: Vibrio parahaemolyticus	
	Fruits & Fruits Products	Aerobic Plate Count Test Parameter: - Aerobic plate count /Total plate count/Mesophilic aerobic microorganisms (Pour plate method)	Chapter 3, FDA- BAM 2001
		Microbiology of the food chain — Horizontal method for the enumeration of microorganisms — Part 1: Colony count at 30 °C by the pour plate technique Test Parameter - Aerobic plate count /Total plate count/Mesophilic aerobic microorganisms	ISO 4833-1-2013
		Microbiology of food and animal feeding stuffs — horizontal method for the enumeration of micro-organisms — colony-count technique at 30 °C Test Parameter: - Aerobic plate count /Total plate count/Mesophilic aerobic microorganisms	IS 5402:2012(Reaffirmed 2018)
		Enumeration of Escherichia coli and the Coliform Bacteria Test Parameter: E. coli (Enumeration)	Chapter 4, FDA- BAM ,2020
		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-	ISO 16649 – 2 2001

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Biological: Food & Agricultural products (cont'd.)	Fruits & Fruits Products (cont'd.)	bromo-4-chloro-3-indolyl beta-D-glucuronide	
		Test Parameter: E. coli	
		Methods for Detection of Bacteria Responsible for Food Poisoning, Part 1: Isolation, Identification and Enumeration of Escherichia Coli	IS 5887 (Part 1) 1976(Reaffirmed 2022)
		Test Parameter: E. coli (Detection)	
		Enumeration of Escherichia coli and the Coliform Bacteria	Chapter 4, FDA- BAM ,2020
		Test Parameter: Coliforms - Enumeration	
		Microbiology of food and animal feeding stuffs — Horizontal method for the detection and enumeration of coliforms — Most probable number technique	ISO 4831 :2006
		Test Parameter: Coliforms (Detection)	
		Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of coliforms — Colony-count technique	ISO 4832:2006
		Test Parameter: Coliforms	
		Microbiology Of Food And Animal Feeding Stuffs — Horizontal Method For The Detection And Enumeration Of Coliforms Part 2 Most Probable Number Technique	IS 5401-2-2012
		Test Parameter: Coliforms	
		Microbiology — general guidance for the enumeration of coliforms	IS 5401-1-2012

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Biological: Food & Agricultural products (cont'd.)	Fruits & Fruits Products (cont'd.)	part 1 colony count technique Test Parameter: Coliforms	
		Methods for detection of bacteria responsible for food poisoning part 7: General guidance on methods for isolation and identification of shigella Test Parameter: Shigella	IS 5887 (Part 7) 1999 (Reaffirmed 2022)
		Staphylococcus aureus Test Parameter: S. aureus	Chapter 12, FDA- BAM, 2016
		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 Test Parameter: S. aureus	ISO 6888-1-2021
		Methods for detection of bacteria responsible for food poisoning part ii isolation, identification, and enumeration of staphylococcus aureus and faecal streptococci Test Parameter: S. aureus	IS 5887 (Part 2) 1976 (Reaffirmed 2022)
		Methods for Detection of Bacteria Responsible for Food Poisoning, Part 8: Horizontal Method for Enumeration of Coagulase-Positive Staphylococci (Staphylococcus Aureus and other Species), Section 1: Technique Using Baird-Parker Agar Medium Test Parameter: S. aureus	IS 5887(P-8/sec-1) 2002(Reaffirmed 2022)

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Biological: Food & Agricultural products (cont'd.)	Fruits & Fruits Products (cont'd.)	Methods for detection of bacteria responsible for food poisoning part3 general guidance on methods for the detection of salmonella Test Parameter: Salmonella	IS 5887(Part 3) SEC-1- 2020
		Salmonella Test Parameter: Salmonella	Chapter 5, FDA- BAM 2024
		Detection of Salmonella Test Parameter: Salmonella	2013.01, Chapter 17, AOAC 22 nd Edition (Salmonella in a Variety of Foods VIDAS UP Salmonella -SPT Method)
		Yeasts and Molds Test Parameter: Yeast and Mould (Spread plate method)	Chapter 18, US FDA BAM 2001
		Method for yeast and mould count of food stuffs and animal feed Test Parameter: Yeast and Mould	IS 5403-1999 (Reaffirmed 2018)
		Detection of Listeria monocytogenes in Foods and Environmental Samples, and Enumeration of Listeria monocytogenes in Foods Test Parameter: Listeria monocytogenes	Chapter 10, FDA- BAM 2020
		Microbiology of food and feeding stuffs — horizontal method for detection and enumeration of listeria monocytogenes Part 1 Detection method Test Parameter: Listeria monocytogenes	IS 14988 (Part 1)2020

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Biological: Food & Agricultural products (cont'd.)	Fruits & Fruits Products (cont'd.)	Detection of <i>Listeria monocytogenes</i>	2004.02, Chapter 17 AOAC, 22 nd Edition (<i>Listeria monocytogenes</i> in Foods VIDAS <i>Listeria monocytogenes</i> II -LMO2)
		Test Parameter: <i>Listeria monocytogenes</i>	
		<i>Bacillus cereus</i>	Chapter 14, US FDA BAM
		Test Parameter: <i>Bacillus cereus</i>	
		Microbiology of food and animal feeding stuffs — horizontal method for the enumeration of presumptive <i>Bacillus cereus</i> part 6 colony-count technique at 30 °C	IS 5887-6-2012(Reaffirmed 2022)
		Test Parameter: <i>Bacillus cereus</i>	
		Methods for detection of bacteria responsible for food poisoning part 4: isolation and identification of <i>Clostridium perfringens</i> (<i>Clostridium welchii</i>) and <i>Clostridium botulinum</i> and enumeration of <i>Clostridium perfringens</i>	IS 5887(Part 4)1999 (Reaffirmed 2022)
		Test Parameter: <i>Clostridium perfringens</i>	
		Microbiology of the food chain – Horizontal method for the detection and enumeration of <i>Clostridium</i> spp. – Part 2: Enumeration of <i>Clostridium perfringens</i> by colony-count technique	ISO 15213-2:2023
		<i>Clostridium perfringens</i>	Chapter 16, FDA- BAM 2001
		Test Parameter: <i>Clostridium perfringens</i> (Enumeration)	
		Methods for detection of bacteria responsible for food poisoning part 7: General guidance on	IS 5887 (Part 7) 1999(Reaffirmed 2022)

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Biological: Food & Agricultural products (cont'd.)	Fruits & Fruits Products (cont'd.)	methods for isolation and identification of shigella Test Parameter: Shigella	
		Microbiology of the food chain — Horizontal method for the detection and enumeration of Enterobacteriaceae — Part 1: Detection of Enterobacteriaceae Test Parameter: Enterobacteriaceae	ISO 21528 – 2-2017
		Methods for detection of bacteria responsible for food poisoning, Part 5: Isolation, identification, and enumeration of Vibrio cholerae and Vibrio paraheamolyticus Test Parameter: Vibrio cholerae	IS 5887(Part 5) 1976 (Reaffirmed 2018)
		Test Parameter: Vibrio cholerae	Chapter 9 FDA BAM 2004
		Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of Lactic acid bacteria colony count technique @ 30 degree Test Parameter: Lactic acid bacteria	ISO 15214:1998
		Aciduric Flat sour Spore formers Test Parameter: Aciduric Flat sour spore formers	Chapter 25.61, 25.62 & 25.63 APHA 5th Edition 2015
		Method of sampling & Test for Processed Fruits & Vegetables Products - Test Parameter: Incubation Test @37 deg for 10 days	IS 2860 1964 (Reaffirmed 2018)

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Biological: Food & Agricultural products (cont'd.)	Fruits & Fruits Products (cont'd.)	Test Parameter: Incubation Test @55 deg for 7 days	
	Herbs, Spices & Condiments	Aerobic Plate Count Test Parameter: - Aerobic plate count /Total plate count/Mesophilic aerobic microorganisms (Pour plate method)	Chapter 3, FDA- BAM 2001
		Microbiology of the food chain — Horizontal method for the enumeration of microorganisms — Part 1: Colony count at 30 °C by the pour plate technique Test Parameter - Aerobic plate count /Total plate count/Mesophilic aerobic microorganisms	ISO 4833-1-2013
		Microbiology of food and animal feeding stuffs — horizontal method for the enumeration of micro-organisms — colony-count technique at 30 °C Test Parameter: - Aerobic plate count /Total plate count/Mesophilic aerobic microorganisms	IS 5402:2012(Reaffirmed 2018)
		Enumeration of Escherichia coli and the Coliform Bacteria Test Parameter: E. coli (Enumeration)	Chapter 4, FDA- BAM ,2020
		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 – 2 2001

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Biological: Food & Agricultural products (cont'd.)	Herbs, Spices & Condiments (cont'd.)	Test Parameter: E. coli	
		Methods for Detection of Bacteria Responsible for Food Poisoning, Part 1: Isolation, Identification and Enumeration of Escherichia Coli	IS 5887 (Part 1) 1976(Reaffirmed 2022)
		Test Parameter: E. coli (Detection)	
		Enumeration of Escherichia coli and the Coliform Bacteria	Chapter 4, FDA- BAM ,2020
		Test Parameter: Coliforms (Enumeration)	
		Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of coliforms — Colony-count technique	ISO 4832:2006
		Test Parameter: Coliforms	
		Microbiology — general guidance for the enumeration of coliforms part 1 colony count technique	IS 5401-1-2012
		Test Parameter: Coliforms	
		Methods for detection of bacteria responsible for food poisoning part 7: General guidance on methods for isolation and identification of shigella	IS 5887 (Part 7) 1999(Reaffirmed 2022)
		Test Parameter: Shigella	
		Staphylococcus aureus	Chapter 12, FDA- BAM,2016
		Test Parameter: S. aureus	
		Microbiology of the food chain — Horizontal method for the enumeration of coagulase-positive staphylococci	ISO 6888-1-2021

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Biological: Food & Agricultural products (cont'd.)	Herbs, Spices & Condiments (cont'd.)	(Staphylococcus aureus and other species) — Part 1: Method using Baird-Parker agar medium Test Parameter: S. aureus	
		Methods for detection of bacteria responsible for food poisoning part ii isolation, identification, and enumeration of staphylococcus aureus and faecal streptococci Test Parameter: S. aureus	IS 5887 (Part 2) 1976(Reaffirmed 2022)
		Methods for Detection of Bacteria Responsible for Food Poisoning, Part 8: Horizontal Method for Enumeration of Coagulase-Positive Staphylococci (Staphylococcus Aureus and other Species), Section 1: Technique Using Baird-Parker Agar Medium Test Parameter: S. aureus	IS 5887(P-8/sec-1) 2002(Reaffirmed 2022)
		Methods for detection of bacteria responsible for food poisoning part3 general guidance on methods for the detection of salmonella Test Parameter: Salmonella	IS 5887(Part 3) SEC-1- 2020
		Salmonella Test Parameter: Salmonella	Chapter 5, FDA- BAM 2024
		Detection of Salmonella Test Parameter: Salmonella	2013.01, Chapter 17, AOAC 22 nd Edition (Salmonella in a Variety of Foods VIDAS UP Salmonella -SPT Method)
		Microbiology of the food chain — Horizontal method for the detection, enumeration and	ISO 6579-1-2017

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Biological: Food & Agricultural products (cont'd.)	Herbs, Spices & Condiments (cont'd.)	serotyping of Salmonella — Part 1: Detection of Salmonella spp. Test Parameter: Salmonella	
		Yeasts and Molds Test Parameter: Yeast and Mould (Spread plate method)	Chapter 18, US FDA BAM 2001
		Method for yeast and mould count of food stuffs and animal feed Test Parameter: Yeast and Mould	IS 5403-1999 (Reaffirmed 2018)
		Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of yeasts and moulds — Part 2: Colony count technique in products with water activity less than or equal to 0,95 Test Parameter: Yeast and Mould	ISO 21527-2-2008
		Detection of Listeria monocytogenes in Foods and Environmental Samples, and Enumeration of Listeria monocytogenes in Foods Test Parameter: Listeria monocytogenes (Detection)	Chapter 10, FDA- BAM 2020
		Microbiology of food and feeding stuffs — horizontal method for detection and enumeration of listeria monocytogenes Part 1 Detection method Test Parameter: Listeria monocytogenes	IS 14988 (Part 1)2020
		Detection of Listeria monocytogenes	2004.02, Chapter 17 AOAC, 22 nd Edition (Listeria

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Biological: Food & Agricultural products (cont'd.)	Herbs, Spices & Condiments (cont'd.)	Test Parameter: <i>Listeria monocytogenes</i>	monocytogenes in Foods VIDAS <i>Listeria monocytogenes</i> II -LMO2)
		Bacillus cereus	Chapter 14, US FDA BAM
		Test Parameter: Bacillus cereus	
		Microbiology of food and animal feeding stuffs — horizontal method for the enumeration of presumptive bacillus cereus part 6 colony-count technique at 30 °C	IS 5887-6-2012(Reaffirmed 2022)
		Test Parameter: Bacillus cereus	
		Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of presumptive Bacillus cereus — Colony-count technique at 30 degrees C	ISO 7932 2004
		Test Parameter: Bacillus cereus	
		Methods for detection of bacteria responsible for food poisoning part 4: isolation and identification of <i>Clostridium perfringens</i> (<i>Clostridium welchii</i>) and <i>Clostridium botulinum</i> and enumeration of <i>Clostridium perfringens</i>	IS 5887(Part 4)1999 (Reaffirmed 2022)
		Test Parameter: <i>Clostridium perfringens</i>	
		Microbiology of the food chain – Horizontal method for the detection and enumeration of <i>Clostridium</i> spp. – Part 2: Enumeration of <i>Clostridium perfringens</i> by colony-count technique	ISO 15213-2:2023

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Biological: Food & Agricultural products (cont'd.)	Herbs, Spices & Condiments (cont'd.)	Clostridium perfringens Test Parameter: Clostridium perfringens	Chapter 16, FDA- BAM 2001
		Methods for detection of bacteria responsible for food poisoning part 7: General guidance on methods for isolation and identification of shigella Test Parameter: Shigella	IS 5887 (Part 7) 1999(Reaffirmed 2022)
	Milk & Dairy Products	Aerobic Plate Count Test Parameter: - Aerobic plate count /Total plate count/Mesophilic aerobic microorganisms (Pour plate method)	Chapter 3, FDA- BAM 2001
		Microbiology of the food chain — Horizontal method for the enumeration of microorganisms — Part 1: Colony count at 30 °C by the pour plate technique Test Parameter - Aerobic plate count /Total plate count/Mesophilic aerobic microorganisms	ISO 4833-1-2013
		Microbiology of food and animal feeding stuffs — horizontal method for the enumeration of micro-organisms — colony-count technique at 30 °C Test Parameter: - Aerobic plate count /Total plate count/Mesophilic aerobic microorganisms	IS 5402:2012 (Reaffirmed 2018)
		Enumeration of Escherichia coli and the Coliform Bacteria Test Parameter: E. coli (Pour plate method & MPN method)	Chapter 4, FDA- BAM ,2020

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Biological: Food & Agricultural products (cont'd.)	Milk & Dairy Products (cont'd.)	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 Test Parameter: E. coli	ISO 16649 – 2 2001
		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 Test Parameter: E. coli	ISO 16649-3-2015
		Methods for Detection of Bacteria Responsible for Food Poisoning, Part 1: Isolation, Identification and Enumeration of Escherichia Coli Test Parameter: E. coli (Detection)	IS 5887 (Part 1) 1976(Reaffirmed 2022)
		Enumeration of Escherichia coli and the Coliform Bacteria Test Parameter: Coliforms (Pour plate method & MPN method)	Chapter 4, FDA- BAM ,2020
		Microbiology of food and animal feeding stuffs — Horizontal method for the detection and enumeration of coliforms — Most probable number technique Test Parameter: Coliforms	ISO 4831 :2006
		Microbiology of food and animal feeding stuffs —	ISO 4832:2006

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
Biological: Food & Agricultural products (cont'd.)	Milk & Dairy Products (cont'd.)	Horizontal method for the enumeration of coliforms — Colony-count technique Test Parameter: Coliforms	
		Microbiology Of Food And Animal Feeding Stuffs — Horizontal Method For The Detection And Enumeration Of Coliforms Part 2 Most Probable Number Technique Test Parameter: Coliforms	IS 5401-2-2012
		Microbiology — general guidance for the enumeration of coliforms part 1 colony count technique Test Parameter: Coliforms	IS 5401-1-2012(Reaffirmed 2018)
		Staphylococcus aureus Test Parameter: S. aureus	Chapter 12, FDA- BAM,2016
		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 Test Parameter: S. aureus	ISO 6888-1-2021
		Methods for detection of bacteria responsible for food poisoning part ii isolation, identification, and enumeration of staphylococcus aureus and faecal streptococci Test Parameter: S. aureus	IS 5887 (Part 2) 1976(Reaffirmed 2022)
		Methods for Detection of Bacteria Responsible for Food Poisoning, Part 8: Horizontal Method for Enumeration of Coagulase-	IS 5887(P-8/sec-1) 2002(Reaffirmed 2022)

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Biological: Food & Agricultural products (cont'd.)	Milk & Dairy Products (cont'd.)	Positive Staphylococci (Staphylococcus Aureus and other Species), Section 1: Technique Using Baird-Parker Agar Medium Test Parameter: S. aureus	
		Microbiology of the food chain — Horizontal method for the detection, enumeration and serotyping of Salmonella — Part 1: Detection of Salmonella spp. Test Parameter: Salmonella	ISO 6579-1-2017
		Methods for detection of bacteria responsible for food poisoning part 3 general guidance on methods for the detection of salmonella Test Parameter: Salmonella	IS 5887(Part 3) sec-1-2020
		Salmonella Test Parameter: Salmonella	Chapter 5, FDA- BAM 2024
		Detection of Salmonella Test Parameter: Salmonella	2013.01, Chapter 17, AOAC 22 nd Edition (Salmonella in a Variety of Foods VIDAS UP Salmonella -SPT Method)
		Yeasts and Molds Test Parameter: Yeast and Mould (Spread plate method)	Chapter 18, US FDA BAM 2001
		Method for yeast and mould count of food stuffs and animal feed Test Parameter: Yeast and Mould	IS 5403-1999 (Reaffirmed 2018)
		Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of yeasts and	ISO 21527-2-2008

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Biological: Food & Agricultural products (cont'd.)	Milk & Dairy Products (cont'd.)	moulds — Part 2: Colony count technique in products with water activity less than or equal to 0,95 Test Parameter: Yeast and Mould	
		Bacillus cereus Test Parameter: Bacillus cereus	Chapter 14, US FDA BAM
		Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of presumptive Bacillus cereus — Colony-count technique at 30 degrees C Test Parameter: Bacillus cereus	ISO 7932 2004
		Microbiology of food and animal feeding stuffs — horizontal method for the enumeration of presumptive bacillus cereus part 6 colony-count technique at 30 °C Test Parameter: Bacillus cereus	IS 5887-6-2012 (Reaffirmed 2022)
		Detection of Listeria monocytogenes in Foods and Environmental Samples, and Enumeration of Listeria monocytogenes in Foods Test Parameter: Listeria monocytogenes	Chapter 10, FDA- BAM 2020
		Microbiology of food and feeding stuffs — horizontal method for detection and enumeration of listeria monocytogenes Part 1 Detection method	IS 14988 (Part 1)2020

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Biological: Food & Agricultural products (cont'd.)	Milk & Dairy Products (cont'd.)	Test Parameter: <i>Listeria monocytogenes</i>	
		Microbiology of the food chain — Horizontal method for the detection and enumeration of <i>Listeria monocytogenes</i> and of <i>Listeria</i> spp. — Part 1: Detection method	ISO 11290-1 2017
		Test Parameter: <i>Listeria</i> spp / <i>Listeria monocytogenes</i>	
		Detection of <i>Listeria</i>	2004.02, Chapter 17 AOAC, 22 nd Edition (<i>Listeria monocytogenes</i> in Foods VIDAS <i>Listeria monocytogenes</i> II -LMO2)
		Test Parameter: <i>Listeria monocytogenes</i>	
		Methods for detection of bacteria responsible for food poisoning part 4: isolation and identification of <i>Clostridium perfringens</i> (<i>Clostridium welchii</i>) and <i>Clostridium botulinum</i> and enumeration of <i>Clostridium perfringens</i>	IS 5887(Part 4)1999 (Reaffirmed 2022)
		Test Parameter: <i>Clostridium perfringens</i> (Enumeration & Detection)	
		Microbiology of the food chain – Horizontal method for the detection and enumeration of <i>Clostridium</i> spp. – Part 2: Enumeration of <i>Clostridium perfringens</i> by colony-count technique	ISO 15213-2:2023
		<i>Clostridium perfringens</i>	Chapter 16, FDA- BAM 2001
		Test Parameter: <i>Clostridium perfringens</i>	
		Methods for detection of bacteria responsible for food poisoning part 7: General guidance on	IS 5887 (Part 7) 1999(Reaffirmed 2022)

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Biological: Food & Agricultural products (cont'd.)	Milk & Dairy Products (cont'd.)	methods for isolation and identification of shigella Test Parameter: Shigella	
		Microbiology of the food chain — Horizontal method for the detection and enumeration of Enterobacteriaceae — Part 1: Detection of Enterobacteriaceae Test Parameter: Enterobacteriaceae	ISO 21528 – 2-2017
		Methods for detection of bacteria responsible for food poisoning, Part 5: Isolation, identification, and enumeration of Vibrio Cholerae and Vibrio Parahaemolyticus Test Parameter: Vibrio cholerae	IS 5887(Part 5)1976(Reaffirmed 2018)
		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 Test Parameter: Vibrio cholerae	ISO 21872-1-2017
		Test Parameter: Lactic acid bacteria	IS 12899: 1989 (Reaffirmed 2018)
		Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of sulfite-reducing bacteria growing under anaerobic conditions Test Parameter: Sulphite reducing clostridia spp	ISO 15213: P-1 2023

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Biological: Food & Agricultural products (cont'd.)	Milk & Dairy Products (cont'd.)	Methods for detection of bacteria responsible for food poisoning part ii isolation, identification, and enumeration of staphylococcus aureus and faecal streptococci Test Parameter: faecal streptococci (Detection)	IS 5887 (Part 2) 1976 (Reaffirmed 2018)
		Microbiology of food and animal feeding stuffs — horizontal method for the enumeration of Bacterial Spore Count Test Parameter: Bacterial Spore Count	IS 12176:1987 (Reaffirmed 2013)



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Testing Laboratory TL-1079

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.

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Biological: Food & Agricultural Products (cont'd.)	Bakery & Confectionary Products	Microbiology of the food chain — Horizontal method for the enumeration of microorganisms — Part 1: Colony count at 30 °C by the pour plate technique Test Parameter - Aerobic plate count /Total plate count/Mesophilic aerobic microorganisms	ISO 4833-1-2013
		Microbiology of food and animal feeding stuffs — horizontal method for the enumeration of microorganisms — colony-count technique at 30 °C Test Parameter: - Aerobic plate count /Total plate count/Mesophilic aerobic microorganisms	IS 5402 ;2012 (Reaffirmed 2018)
		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 Test Parameter: E. coli	ISO 16649 – 2 2001

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Biological: Food & Agricultural Products (cont'd.)	Bakery & Confectionary Products (cont'd.)	Methods for Detection of Bacteria Responsible for Food Poisoning, Part 1: Isolation, Identification and Enumeration of Escherichia Coli Test Parameter: E. coli (Detection)	IS 5887 (Part 1) 1976 (Reaffirmed 2022)
		Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of coliforms — Colony-count technique Test Parameter: Coliforms	ISO 4832:2006
		Microbiology — general guidance for the enumeration of coliforms part 1 colony count technique Test Parameter: Coliforms	IS 5401-1-2012
		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 Test Parameter: S. aureus	ISO 6888-1-2021
		Methods for Detection of Bacteria Responsible for Food Poisoning, Part 8: Horizontal Method for Enumeration of Coagulase-Positive Staphylococci (Staphylococcus Aureus and other Species), Section 1: Technique Using Baird-Parker Agar Medium Test Parameter: S. aureus	IS 5887(P-8/sec-1) 2002 (Reaffirmed 2022)

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Biological: Food & Agricultural Products (cont'd.)	Bakery & Confectionary Products (cont'd.)	Microbiology of the food chain — Horizontal method for the detection, enumeration and serotyping of Salmonella — Part 1: Detection of Salmonella spp. Test Parameter: Salmonella	ISO 6579-1-2017
		Methods for detection of bacteria responsible for food poisoning part3 general guidance on methods for the detection of salmonella Test Parameter: Salmonella	IS 5887(Part 3) Sec 1 2020
		Detection of Salmonella Test Parameter: Salmonella	2013.01, Chapter 17, AOAC 22 nd Edition (Salmonella in a Variety of Foods VIDAS UP Salmonella -SPT Method)
		Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of yeasts and molds — Part 2: Colony count technique in products with water activity less than or equal to 0,95 Test Parameter: Yeast and Mould	ISO 21527-2-2017
		Method for yeast and mould count of food stuffs and animal feed Test Parameter: Yeast and Mould	IS 5403-1999 (Reaffirmed 2018)
		Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of	ISO 7932 2004

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
Biological: Food & Agricultural Products (cont'd.)	Bakery & Confectionary Products (cont'd.)	presumptive <i>Bacillus cereus</i> — Colony-count technique at 30 degrees C Test Parameter: <i>Bacillus cereus</i>	
		Microbiology of food and animal feeding stuffs — horizontal method for the enumeration of presumptive <i>Bacillus cereus</i> part 6 colony-count technique at 30 °C Test Parameter: <i>Bacillus cereus</i>	IS 5887-6- 2012 (Reaffirmed 2018)
		Microbiology of food and feeding stuffs — horizontal method for detection and enumeration of <i>Listeria monocytogenes</i> Part 1 Detection method Test Parameter: <i>Listeria monocytogenes</i>	IS 14988 (Part 1)2020
		Microbiology of the food chain — Horizontal method for the detection and enumeration of <i>Listeria monocytogenes</i> and of <i>Listeria</i> spp. — Part 1: Detection method Test Parameter: <i>Listeria</i> spp / <i>Listeria monocytogenes</i>	ISO 11290-1 2017
		Detection of <i>Listeria monocytogenes</i> Test Parameter: <i>Listeria monocytogenes</i>	2004.02, Chapter 17 AOAC, 22 nd Edition (<i>Listeria monocytogenes</i> in Foods VIDAS <i>Listeria monocytogenes</i> II -LMO2)
	Nuts & Nuts Products	Microbiology of the food chain — Horizontal method for the enumeration of microorganisms — Part 1:	ISO 4833-1-2013

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
Biological: Food & Agricultural Products (cont'd.)	Nuts & Nuts Products (cont'd.)	Colony count at 30 °C by the pour plate technique Test Parameter - Aerobic plate count /Total plate count/Mesophilic aerobic microorganisms	
		Microbiology of food and animal feeding stuffs — horizontal method for the enumeration of micro-organisms — colony-count technique at 30 °C Test Parameter: - Aerobic plate count /Total plate count/Mesophilic aerobic microorganisms	IS 5402:2012 (Reaffirmed 2018)
		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 Test Parameter: E. coli	ISO 16649 – 2 2001
		Methods for Detection of Bacteria Responsible for Food Poisoning, Part 1: Isolation, Identification and Enumeration of Escherichia Coli Test Parameter: E. coli (Detection)	IS 5887 (Part 1) 1976 (Reaffirmed 2022)
		Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of coliforms — Colony-count technique Test Parameter: Coliforms	ISO 4832:2006

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Biological: Food & Agricultural Products (cont'd.)	Nuts & Nuts Products (cont'd.)	Microbiology — general guidance for the enumeration of coliforms part 1 colony count technique Test Parameter: Coliforms	IS 5401-1-2012
		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 Test Parameter: S. aureus	ISO 6888-1-2021
		Methods for Detection of Bacteria Responsible for Food Poisoning, Part 8: Horizontal Method for Enumeration of Coagulase-Positive Staphylococci (Staphylococcus Aureus and other Species), Section 1: Technique Using Baird-Parker Agar Medium Test Parameter: S. aureus	IS 5887(P-8/sec-1) 2002 (Reaffirmed 2022)
		Microbiology of the food chain — Horizontal method for the detection, enumeration and serotyping of Salmonella — Part 1: Detection of Salmonella spp. Test Parameter: Salmonella	ISO 6579-1-2017
		Methods for detection of bacteria responsible for food poisoning part3 general guidance on methods for the detection of salmonella	IS 5887(Part 3) sec-1:2020

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
Biological: Food & Agricultural Products (cont'd.)	Nuts & Nuts Products (cont'd.)	Test Parameter: Salmonella	
		Detection of Salmonella	2013.01, Chapter 17, AOAC 22 nd Edition (Salmonella in a Variety of Foods VIDAS UP Salmonella -SPT Method)
		Test Parameter: Salmonella	
		Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of yeasts and molds — Part 2: Colony count technique in products with water activity less than or equal to 0,95	ISO 21527-2-2017
		Test Parameter: Yeast and Mould	
		Method for yeast and mould count of food stuffs and animal feed	IS 5403-1999 (Reaffirmed 2018)
		Test Parameter: Yeast and Mould	
		Detection of Listeria monocytogenes in Foods and Environmental Samples, and Enumeration of Listeria monocytogenes in Foods	Chapter 10, FDA- BAM 2020
		Test Parameter: Listeria monocytogenes (Detection)	
		Microbiology of food and feeding stuffs — horizontal method for detection and enumeration of listeria monocytogenes Part 1 Detection method	IS 14988 (Part 1)2020
		Test Parameter: Listeria monocytogenes	
		Microbiology of the food chain — Horizontal method for the detection and	ISO 11290-1 2017

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Biological: Food & Agricultural Products (cont'd.)	Nuts & Nuts Products (cont'd.)	enumeration of <i>Listeria monocytogenes</i> and of <i>Listeria</i> spp. — Part 1: Detection method Test Parameter: <i>Listeria</i> spp / <i>Listeria monocytogenes</i>	
		Detection of <i>Listeria monocytogenes</i> Test Parameter: <i>Listeria monocytogenes</i>	2004.02, Chapter 17 AOAC, 22 nd Edition (<i>Listeria monocytogenes</i> in Foods VIDAS <i>Listeria monocytogenes</i> II -LMO2)
		Methods for detection of bacteria responsible for food poisoning part 4: isolation and identification of <i>Clostridium perfringens</i> (<i>Clostridium welchii</i>) and <i>Clostridium botulinum</i> and enumeration of <i>Clostridium perfringens</i> Test Parameter: <i>Clostridium perfringens</i> (Enumeration & Detection)	IS 5887(Part 4)1999 (Reaffirmed 2022)
		Microbiology of the food chain – Horizontal method for the detection and enumeration of <i>Clostridium</i> spp. – Part 2: Enumeration of <i>Clostridium perfringens</i> by colony-count technique	ISO 15213-2:2023
		Methods for detection of bacteria responsible for food poisoning part 7: General guidance on methods for isolation and identification of shigella Test Parameter: Shigella	IS 5887 (Part 7) 1999(Reaffirmed 2022)
		Methods for detection of bacteria responsible for food poisoning, Part 5: Isolation, identification, and	IS 5887(Part 5)1976 (Reaffirmed 2018)

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Biological: Food & Agricultural Products (cont'd.)	Nuts & Nuts Products (cont'd.)	enumeration of <i>Vibrio cholerae</i> and <i>Vibrio parahaemolyticus</i> Test Parameter: <i>Vibrio cholerae</i>	
		Microbiology of the food chain — Horizontal method for the determination of <i>Vibrio</i> spp. — Part 1: Detection of potentially enteropathogenic <i>Vibrio parahaemolyticus</i> , <i>Vibrio cholerae</i> and <i>Vibrio vulnificus</i> Test Parameter: <i>Vibrio cholerae</i>	ISO 21872-1-2017
Biological: Animal Food & Feed	Animal feeds	Microbiology of the food chain — Horizontal method for the enumeration of microorganisms — Part 1: Colony count at 30 °C by the pour plate technique Test Parameter - Aerobic plate count /Total plate count/Mesophilic aerobic microorganisms	ISO 4833-1-2013
		Microbiology of food and animal feeding stuffs — horizontal method for the enumeration of microorganisms — colony-count technique at 30 °C Test Parameter: - Aerobic plate count /Total plate count/Mesophilic aerobic microorganisms	IS 5402: 2012 (Reaffirmed 2018)
		Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of beta-glucuronidase-positive <i>Escherichia coli</i> — Part 2: Colony-count technique at	ISO 16649 – 2 2001

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Biological: Animal Food & Feed (cont'd.)	Animal feeds (cont'd.)	44 degrees C using 5-bromo-4-chloro-3-indolyl beta-D-glucuronide Test Parameter: E. coli	
		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 Test Parameter: E. coli	ISO 16649-3-2015
		Methods for Detection of Bacteria Responsible for Food Poisoning, Part 1: Isolation, Identification and Enumeration of Escherichia Coli Test Parameter: E. coli	IS 5887 (Part 1) 1976 (Reaffirmed 2022)
		Enumeration of Escherichia coli and the Coliform Bacteria Test Parameter: Coliforms	Chapter 4, FDA- BAM, 2020
		Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of coliforms — Colony-count technique Test Parameter: Coliforms	ISO 4832:2006
		Microbiology — general guidance for the enumeration of coliforms part 1 colony count technique Test Parameter: Coliforms	IS 5401-1-2012 (Reaffirmed 2018)
		Methods for detection of bacteria responsible for food poisoning part 7: General guidance on	IS 5887 (Part 7) 1999 (Reaffirmed 2022)

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
Biological: Animal Food & Feed (cont'd.)	Animal feeds (cont'd.)	methods for isolation and identification of shigella Test Parameter: Shigella	
		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 Test Parameter: S. aureus	ISO 6888-1-2021
		Methods for Detection of Bacteria Responsible for Food Poisoning, Part 8: Horizontal Method for Enumeration of Coagulase-Positive Staphylococci (Staphylococcus Aureus and other Species), Section 1: Technique Using Baird-Parker Agar Medium Test Parameter: S. aureus	IS 5887(P-8/sec-1) 2002 (Reaffirmed 2022)
		Microbiology of the food chain — Horizontal method for the detection, enumeration and serotyping of Salmonella — Part 1: Detection of Salmonella spp. Test Parameter: Salmonella	ISO 6579-1-2017
		Methods for detection of bacteria responsible for food poisoning part3 general guidance on methods for the detection of salmonella Test Parameter: Salmonella	IS 5887(Part 3) sec 1 2020
		Detection of Salmonella Rapid analysis	2013.01, Chapter 17, AOAC 22 nd Edition (Salmonella in a

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Biological: Animal Food & Feed (cont'd.)	Animal feeds (cont'd.)	Test Parameter: Salmonella	Variety of Foods VIDAS UP Salmonella -SPT Method)
		Yeasts and Molds	Chapter 18, US FDA BAM 2001
		Test Parameter: Yeast and Mould (Spread plate method)	
		Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of yeasts and molds — Part 2: Colony count technique in products with water activity less than or equal to 0,95	ISO 21527-2-2017
		Test Parameter: Yeast and Mould	
		Microbiology of food and feeding stuffs — horizontal method for detection and enumeration of listeria monocytogenes Part 1 Detection method	IS 14988 (Part 1)2020
		Test Parameter: Listeria monocytogenes	
		Microbiology of the food chain — Horizontal method for the detection and enumeration of Listeria monocytogenes and of Listeria spp. — Part 1: Detection method	ISO 11290-1 2017
		Test Parameter: Listeria spp / Listeria monocytogenes	
		Detection of Listeria monocytogenes	2004.02, Chapter 17 AOAC, 22 nd Edition (Listeria monocytogenes in Foods VIDAS Listeria monocytogenes II -LMO2)
		Test Parameter: Listeria monocytogenes	
		Methods for detection of bacteria responsible for food poisoning part 4: isolation and identification of Clostridium perfringens	IS 5887(Part 4)1999 (Reaffirmed 2022)

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
Biological: Animal Food & Feed (cont'd.)	Animal feeds (cont'd.)	(<i>Clostridium welchii</i>) and <i>Clostridium botulinum</i> and enumeration of <i>Clostridium perfringens</i> Test Parameter: <i>Clostridium perfringens</i> (Enumeration)	
		Microbiology of the food chain – Horizontal method for the detection and enumeration of <i>Clostridium</i> spp. – Part 2: Enumeration of <i>Clostridium perfringens</i> by colony-count technique	ISO 15213-2:2023
		Microbiology of the food chain — Horizontal method for the detection and enumeration of Enterobacteriaceae — Part 1: Detection of Enterobacteriaceae Test Parameter: Enterobacteriaceae	ISO 21528 – 2:2017
Biological: Marine & Aquaculture Products	Fish & Fishery Products (Shrimp & Prawns)	Aerobic Plate Count Test Parameter: - Aerobic plate count /Total plate count/Mesophilic aerobic microorganisms (Pour plate method)	Chapter 3, FDA- BAM 2001
		Microbiology of the food chain — Horizontal method for the enumeration of microorganisms — Part 1: Colony count at 30 °C by the pour plate technique Test Parameter - Aerobic plate count /Total plate count/Mesophilic aerobic microorganisms	ISO 4833-1-2013

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Biological: Marine & Aquaculture Products (cont'd.)	Fish & Fishery Products (Shrimp & Prawns) (cont'd.)	Enumeration of Escherichia coli and the Coliform Bacteria Test Parameter: E. coli (MPN)	Chapter 4, FDA- BAM 2020
		Enumeration of Escherichia coli and the Coliform Bacteria Test Parameter: E. coli (Enumeration)	Chapter 4, FDA- BAM 2020
		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 Test Parameter: E. coli	ISO 16649 – 2-2001
		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 Test Parameter: E. coli	ISO 16649-3-2015
		Methods for Detection of Bacteria Responsible for Food Poisoning, Part 1: Isolation, Identification and Enumeration of Escherichia Coli Test Parameter: E. coli (Detection)	IS 5887 (Part 1) 1976 (Reaffirmed 2022)

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Biological: Marine & Aquaculture Products (cont'd.)	Fish & Fishery Products (Shrimp & Prawns) (cont'd.)	Enumeration of Escherichia coli and the Coliform Bacteria Test Parameter: Coliforms (MPN & Enumeration)	Chapter 4, FDA-BAM 2020
		Microbiology of food and animal feeding stuffs — Horizontal method for the detection and enumeration of coliforms — Most probable number technique Test Parameter: Coliforms	ISO 4831:2006
		Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of coliforms — Colony-count technique Test Parameter: Coliforms	ISO 4832:2006
		Enumeration of Escherichia coli and the Coliform Bacteria Test Parameter: Faecal Coliforms (MPN)	Chapter 4, FDA-BAM 2020
		Staphylococcus aureus Test Parameter: S. aureus (MPN)	Chapter 12, FDA-BAM,2016
		Staphylococcus aureus Enumeration Test Parameter: S. aureus	Chapter 12, FDA-BAM,2016
		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 Test Parameter: S. aureus	ISO 6888-1-2021
		Methods for Detection of Bacteria Responsible for Food Poisoning, Part 8:	IS 5887(P-8/sec-1) 2002 (Reaffirmed 2022)

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Biological: Marine & Aquaculture Products (cont'd.)	Fish & Fishery Products (Shrimp & Prawns) (cont'd.)	Horizontal Method for Enumeration of Coagulase-Positive Staphylococci (Staphylococcus Aureus and other Species), Section 1: Technique Using Baird-Parker Agar Medium Test Parameter: S. aureus	
		Microbiology of the food chain — Horizontal method for the detection, enumeration and serotyping of Salmonella — Part 1: Detection of Salmonella spp. Test Parameter: Salmonella	ISO 6579-1-2017
		Methods for detection of bacteria responsible for food poisoning part3 general guidance on methods for the detection of salmonella Test Parameter: Salmonella	IS 5887(Part 3) Sec-1-2020
		Salmonella Test Parameter: Salmonella	Chapter 5, FDA- BAM 2024
		Detection of Salmonella Rapid analysis Test Parameter: Salmonella	2013.01, Chapter 17, AOAC 22 nd Edition (Salmonella in a Variety of Foods VIDAS UP Salmonella -SPT Method)
		Yeasts and Molds Test Parameter: Yeast and Mould (Spread plate method)	Chapter 18, US FDA BAM
		Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of yeasts and moulds — Part 2: Colony count technique in products	ISO 21527-2-2008

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Biological: Marine & Aquaculture Products (cont'd.)	Fish & Fishery Products (Shrimp & Prawns) (cont'd.)	with water activity less than or equal to 0,95 Test Parameter: Yeast and Mould	
		Detection of <i>Listeria monocytogenes</i> in Foods and Environmental Samples, and Enumeration of <i>Listeria monocytogenes</i> in Foods Test Parameter: <i>Listeria monocytogenes</i> (Detection)	Chapter 10, FDA-BAM 2022
		Microbiology of food and feeding stuffs — horizontal method for detection and enumeration of <i>Listeria monocytogenes</i> Part 1 Detection method Test Parameter: <i>Listeria monocytogenes</i>	IS 14988 (Part 1)2020
		Microbiology of the food chain — Horizontal method for the detection and enumeration of <i>Listeria monocytogenes</i> and of <i>Listeria</i> spp. — Part 1: Detection method Test Parameter: <i>Listeria</i> spp / <i>Listeria monocytogenes</i>	ISO 11290-1-2017
		Detection of <i>Listeria monocytogenes</i> Test Parameter: <i>Listeria monocytogenes</i>	2004.02, Chapter 17 AOAC, 22 nd Edition (<i>Listeria monocytogenes</i> in Foods VIDAS <i>Listeria monocytogenes</i> II -LMO2)
		Methods for detection of bacteria responsible for food poisoning part 4: isolation and identification of <i>Clostridium perfringens</i> (<i>Clostridium welchii</i>) and <i>Clostridium botulinum</i> and	IS 5887(Part 4)1999 (Reaffirmed 2022)

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Biological: Marine & Aquaculture Products (cont'd.)	Fish & Fishery Products (Shrimp & Prawns) (cont'd.)	enumeration of <i>Clostridium perfringens</i> Test Parameter: <i>Clostridium perfringens</i> (Detection)	
		Microbiology of the food chain – Horizontal method for the detection and enumeration of <i>Clostridium</i> spp. – Part 2: Enumeration of <i>Clostridium perfringens</i> by colony-count technique	ISO 15213-2:2023
		<i>Clostridium perfringens</i> Test Parameter: <i>Clostridium perfringens</i>	Chapter 16, FDA-BAM 2001
		<i>Shigella</i> Test Parameter: <i>Shigella</i>	Chapter 6, FDA-BAM 2023
		Microbiology of food and animal feeding stuffs — Horizontal method for the detection of <i>Shigella</i> spp. Test Parameter: <i>Shigella</i>	ISO 21567-2004
		Microbiology of food and animal feeding stuffs — Horizontal methods for the detection and enumeration of Enterobacteriaceae — Part 2: Colony-count method Test Parameter: Enterobacteriaceae	ISO 21528 – 2-2017
		Methods for detection of bacteria responsible for food poisoning, Part 5: Isolation, identification, and enumeration of <i>Vibrio cholerae</i> and <i>Vibrio parahaemolyticus</i> Test Parameter: <i>Vibrio cholerae</i> , & <i>Vibrio parahaemolyticus</i>	IS 5887(Part 5)-1976 (Reaffirmed 2018)

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Biological: Marine & Aquaculture Products (cont'd.)	Fish & Fishery Products (Shrimp & Prawns) (cont'd.)	Microbiology of the food chain — Horizontal method for the determination of <i>Vibrio</i> spp. — Part 1: Detection of potentially enteropathogenic <i>Vibrio parahaemolyticus</i> , <i>Vibrio cholerae</i> and <i>Vibrio vulnificus</i> Test Parameter: <i>Vibrio cholerae</i> , <i>Vibrio parahaemolyticus</i> , <i>Vibrio vulnificus</i>	ISO 21872-1-2017
		<i>Vibrio</i> Test Parameter: <i>Vibrio cholerae</i> , <i>Vibrio parahaemolyticus</i>	Chapter 09, FDA – BAM 2004
		<i>Vibrio</i> Test Parameter: <i>Vibrio parahaemolyticus</i> (MPN)	Chapter 09, FDA – BAM 2004
		Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of sulfite-reducing bacteria growing under anaerobic conditions Test Parameter: Sulphite reducing clostridia spp	ISO 15213: P-1 2023
		<i>Bacillus cereus</i> Test Parameter: <i>Bacillus cereus</i>	Chapter 14, US FDA BAM 2020
		Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of presumptive <i>Bacillus cereus</i> — Colony-count technique at 30 degrees C Test Parameter: <i>Bacillus cereus</i>	ISO 7932 2004
		Enterococci (Enumeration)	Chapter -10 , 10.15 Compendium of Methods for

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Biological: Marine & Aquaculture Products (cont'd.)	Fish & Fishery Products (Shrimp & Prawns) (cont'd.)		the microbiological examination of foods 5 th Edition APHA
Biological: Water	Drinking Water, Piped Borewell Water, Industrial Water	Coliforms (MPN)	APHA 24 th Edition, 2024 9221 - 9221 B & 9221 C,
		Methods of Sampling and Microbiological Examination of Water Test Parameter: Coliforms (MPN)	IS: 1622 :1981 (Reaffirmed 2019)
		E. coli (MPN)	APHA 24 th Edition, 2024 9221 E
		Feacal coliforms (MPN)	APHA 24 th Edition, 2024 9221 E
		Methods of Sampling and Microbiological Examination of Water Test Parameter: E. coli (MPN)	IS: 1622 :1981 (Reaffirmed 2019)
		E. coli (MPN)	APHA 24 th Edition, 2024 9221 B, 9221 E
		E. coli (Detection)	APHA 24 th Edition, 2024 9222 G, & 9221 E APHA 23 rd Edition
		Methods of Sampling and Microbiological Examination of Water Test Parameter: E. coli (MPN)	IS: 1622 :1981 (Reaffirmed 2019)
		Water quality — Enumeration of Escherichia coli and coliform bacteria — Part 1: Membrane filtration method for waters with low bacterial background flora Test Parameter: E. coli & Coliforms	ISO 9308-1-2014
		Total plate count @20 °C – 28 °C	APHA 24 th Edition, 2024 9215 B
	Packaged Natural Mineral Water & Packaged Drinking Water	Water quality — detection and enumeration of Escherichia coli and coliform bacteria — membrane filtration method	IS 15185 -2016 (Reaffirmed 2021)

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Biological: Water (cont'd.)	Packaged Natural Mineral Water & Packaged Drinking Water (cont'd.)	Test Parameter: E. coli & Coliform	
		Water Quality — Detection and Enumeration of Intestinal Enterococci — Membrane Filtration Test Parameter: (Fecal Streptococci) Enterococci	IS 15186 2002 (Reaffirmed 2018)
		Methods for Detection of Bacteria Responsible for Food Poisoning Part 2 Isolation, Identification And Enumeration Of Staphylococcus Aureus And Faecal Streptococci Test Parameter: Staphylococcus aureus	IS 5887 -2-1976 (Reaffirmed 2022)
		Packaged Drinking Water & Packaged Natural Mineral Water Test Parameter: Sulphite reducing anaerobes (Clostridia)	IS 13428 Annex-C-2005 (Reaffirmed 2018)
		Packaged Drinking Water & Packaged Natural Mineral Water Test Parameter: Pseudomonas aeruginosa	IS 13428 Annex-D-2005 (Reaffirmed 2018)
		Method for yeast and mould count of foodstuffs and animal feeds Test Parameter: Yeast and Mold (Detection)	IS 5403-1999 (Reaffirmed 2018)
		Microbiology of Food and Animal Feeding Stuffs – Horizontal Method for the Enumeration of Micro-Organisms – Colony-Count Technique at 30°C (Only for Packaged Drinking Water) Test Parameter: Aerobic Microbial Count at 22 °C	IS 5402-2012 (Reaffirmed 2018)

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Biological: Water (cont'd.)	Packaged Natural Mineral Water & Packaged Drinking Water (cont'd.)	Microbiology of Food and Animal Feeding Stuffs – Horizontal Method for the Enumeration of Micro-Organisms – Colony-Count Technique at 30 °C (Only for Packaged Drinking Water) Test Parameter: Aerobic Microbial Count at 37 °C	IS 5402-2012 (Reaffirmed 2018)
		Water Quality — Detection of Salmonella Species Test Parameter: Salmonella	IS 15187-2016 (Reaffirmed 2021)
		Methods for detection of bacteria responsible for food poisoning part 7 general guidance on methods for isolation and identification of Shigella Test Parameter: Shigella	IS 5887 (Part 7) 1999 (Reaffirmed 2022)
		Detection of Bacteria Responsible for Food Poisoning Part V Isolation, Identification and Enumeration of Vibrio Cholerae And Vibrio Parahaemolyticus Test Parameter: Vibrio cholerae & Vibrio parahaemolyticus	IS 5887 (Part 5) 1976 (Reaffirmed 2018)
	Water for Processed Food Industry (Water/Ice)	Methods of Sampling and Microbiological Examination of Water Test Parameter: Standard Plate Count	IS: 1622 1981 (Reaffirmed 2019)
		Methods of Sampling and Microbiological Examination of Water Test Parameter: Coliform (MPN)	IS: 1622 1981 (Reaffirmed 2019)
		Methods of Sampling and Microbiological Examination of Water	IS: 1622 1981 (Reaffirmed 2019)

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Biological: Water (cont'd.)	Water for Processed Food Industry (Water/Ice) (cont'd.)	Test Parameter: E. coli (MPN)	
		Quality Tolerances for Water For Processed Food Industry	IS 4251: 1976 (Appendix A) (Reaffirmed 2013)
		Test Parameter: Proteolytic count & Lipolytic)	
		Microbiology of Food and Animal Feeding Stuffs – Horizontal Method for the Enumeration of Micro-Organisms – Colony-Count Technique at 30 °C Test Parameter: Aerobic Microbial Count at 22 °C	IS 5402- 2012
		Microbiology of Food and Animal Feeding Stuffs – Horizontal Method for the Enumeration of Micro-Organisms – Colony-Count Technique at 30 °C Test Parameter: Aerobic Microbial Count at 37 °C	IS 5402-2012
		Water Quality — Enumeration of Culturable Micro-Organisms — Colony Count by Inoculation In A Nutrient Agar Culture Medium Test Parameter: Colony count @ 22 °C Test Parameter: Colony count @ 37 °C	ISO 6222 :1999
		Water quality — Enumeration of Escherichia coli and coliform bacteria — Part 1: Membrane filtration method for waters with low bacterial background flora Test Parameter: Coliforms & E.coli	ISO 9308-1-2014
		Water quality — Detection and enumeration of intestinal enterococci —	ISO 7899-2-2000

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Biological: Water (cont'd.)	Water for Processed Food Industry (Water/Ice) (cont'd.)	Part 2: Membrane filtration method Test Parameter: (Faecal Streptococci) Enterococci	
		Water quality — Detection and enumeration of <i>Pseudomonas aeruginosa</i> — Method by membrane filtration Test Parameter: <i>Pseudomonas aeruginosa</i>	ISO 16266 -2006
		Water Quality — Enumeration of <i>Clostridium Perfringens</i> — Method Using Membrane Filtration Test Parameter: <i>Clostridium perfringens</i>	ISO 14189 – 2013



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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.

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
Chemical: Food & Agricultural Products	Meat and Meat Products	Loss on Drying (Moisture) in Meat	950.46, Chapter 39, AOAC 22nd Edition:2023
		Crude fat in meat	960.39, Chapter 39, AOAC 22nd Edition:2023
		Salt (Chlorine as Sodium Chloride) in meat	935.47, Chapter 39, AOAC 22nd Edition:2023
		Ash in Meat	920.153, Chapter 39, AOAC 22nd Edition:2023
		Nitrogen in meat	928.08, Chapter 39, AOAC 22nd Edition:2023
		Determination of Metals in Food samples (Annexure-II) - Copper	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food samples (Annexure-II) -Zinc	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food samples (Annexure-II) -Tin	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food samples (Annexure-II) -Mercury	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food samples (Annexure-II) -Arsenic	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food samples (Annexure-II) -Lead	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food samples (Annexure-II) -Cadmium	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food samples (Annexure-II) -Selenium	VTZ_LAB_SOP_25_2023

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Chemical: Food & Agricultural Products (cont'd.)	Meat and Meat Products (cont'd.)	Determination of Metals in Food & Feed samples by ICP-MS - Antimony	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Chromium	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Nickel	VTZ_LAB_SOP_25_2023
	Milk (Raw and Pasteurized) / Curd / Lassi / Condensed Milk / Skimmed Milk / Partly Skimmed Milk	Method of test for Dairy Industry - Determination of total solids (Gravimetric Method)	IS:1479 (P-II)- 1961 RA-2018 (Clause -4)
		Method for determination of total solids content in condensed milk	IS:11622-1986 RA-2018
		Determination of Total Solids (Gravimetric Method)	FSSAI Manual of Methods (Dairy and Dairy Products) – FSSAI 01.053:2022
		Determination of titratable acidity	FSSAI Manual of Methods (Dairy and Dairy Products) – FSSAI 01.035:2022
		Methods of test for Dairy industry- Determination of pH	IS1479(P-1)2016 (Clause 7)
		Determination of fat in milk (Rose- Gottlieb Method) - Fat	FSSAI Manual of Methods (Dairy and Dairy Products) – FSSAI 01.024:2022
		Method of test for Dairy Industry - Determination of Fat (Rose Gottlieb Method)	IS:1479 (P-II)- 1961 RA 2018 (Clause 5)
		Method of test for Dairy Industry - Determination of Ash	IS:1479 (P-II)- 1961 RA 2018 (Clause 16)
		Method of test for Dairy Industry – Determination of Crude Protein	IS:1479 (P-II)- 1961 RA 2018 (Clause 8)
		Determination of Total Nitrogen/Crude protein in milk – Crude protein	FSSAI Manual of Methods (Dairy and Dairy Products) – FSSAI 01.027:2022
		Method of test for Dairy Industry Determination of Total Nitrogen	IS:1479 (P-II)- 1961 RA 2018 (Clause 7)

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Chemical: Food & Agricultural Products (cont'd.)	Milk (Raw and Pasteurized) / Curd / Lassi / Condensed Milk / Skimmed Milk/Partly Skimmed Milk (cont'd.)	Solids-not-fat in Milk (by difference between total solids & fat contents)	990.21, Chapter 33, AOAC 22 nd Edition:2023
		Solids-not-fat in Milk	FSSAI Manual of Methods (Dairy and Dairy Products) – FSSAI 01.025:2022
		Detection of added urea in milk - Urea	FSSAI Manual of Methods (Dairy and Dairy Products) – FSSAI 01.004:2022
		Detection of starch in milk - Starch	FSSAI Manual of Methods (Dairy and Dairy Products) – FSSAI 01.003:2022
		Test for presence of Anionic detergents in milk-Detergents	FSSAI Manual of Methods (Dairy and Dairy Products) – FSSAI 01.015:2022
		Detection of Neutralisers in Milk (Rosalic Acid Method) - Neutralisers	FSSAI Manual of Methods (Dairy and Dairy Products) – FSSAI 01.012:2022
	Dry Milk Powder (Milk Powder, Skimmed Milk Powder, Partly Skimmed Milk Powder)	Determination of Moisture content in milk powder and similar products	IS 10672:2012
		Determination of Moisture in Dried milk – Moisture	FSSAI Manual of Methods (Dairy and Dairy Products) – FSSAI 01.056:2022
		Physical test in Food Products- Filthy, putrid, rotten, decomposed, or diseased animal substance or vegetable substance, worms, weevils or insects	VTZ_LAB_SOP_001_2025
		Determination of the Solubility percent in milk powder - Solubility	FSSAI Manual of Methods (Dairy and Dairy Products) – FSSAI 01.069:2022
		Detection of starch in milk - Starch	FSSAI Manual of Methods (Dairy and Dairy Products) – FSSAI 01.003:2022
		Sulphites in foods (Optimised Monier – Williams method) – Sulphur dioxide	990.28, Chapter 47, AOAC 22 nd Edition:2023
		Dried milk & Dried milk products – Determination of	IS:11721-2013, RA-2022

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Chemical: Food & Agricultural Products (cont'd.)	Dry Milk Powder (Milk Powder, Skimmed Milk Powder, Partly Skimmed Milk Powder) (cont'd)	Fat content (Gravimetric Method)	
		Determination of fat in Dried milk - Fat FSSAI	FSSAI Manual of Methods (Dairy and Dairy Products) – FSSAI 01.057:2022
		Determination of Total ash in Dried milk – Total Ash	FSSAI Manual of Methods (Dairy and Dairy Products) – FSSAI 01.064:2022
		Whole Milk powder Specification - Determination of Total Ash	IS:1165- 2022
		Whole Milk powder Specification – Determination of Titrable Acidity as lactic acid	IS:1165- 2022
		Methods for determination of Protein in foods & Feeds – Protein	IS 1479 (Part-2) :1961, RA 2018
		Determination of Milk protein in milk solids not fat of Dried milk - Protein	FSSAI Manual of Methods (Dairy and Dairy Products) FSSAI 01.062:2022
	Cheese (Includes Natural & Processed Cheese) & Paneer	Specification-Cheese – Determination of Moisture	IS:2785- 2022 , Annex-B
		Paneer – Specification – Determination of Moisture	IS:10484-2021 (Annex A)
		Paneer – Specification - Determination of Milk Fat	IS:10484-2021 (Annex B)
		Paneer – Specification – Determination of Titratable Acidity	IS:10484-2021 (Annex C)
		Acidity of Cheese (Titrimetric Method)- Acidity	920.124, Chapter 33, AOAC 22 nd Edition:2023
		Ash of cheese (Gravimetric Method)- Ash	935.42, Chapter 33, AOAC 22 nd Edition:2023
		Total nitrogen in Cheese (Kjeldahl method)	2001.14, Chapter 33, AOAC 22 nd Edition:2023
		Physical test in Food Products- Filthy, putrid, rotten, decomposed, or diseased animal substance or vegetable substance, worms, weevils, or insects	VTZ_LAB_SOP_001_2025

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Chemical: Food & Agricultural Products (cont'd.)	Cheese (Includes Natural & Processed Cheese) & Paneer (cont'd.)	Detection of starch in milk - Starch	FSSAI Manual of Methods (Dairy and Dairy Products) – FSSAI 01.003:2022
		Sulphites in foods (Optimised Monier – Williams method) – Sulphur dioxide	990.28, Chapter 47, AOAC 22 nd Edition:2023
	Milk, Cheese, Panner, Butter, Ghee, SMP	Determination of Metals in Food samples, Annexure-II - Copper	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food samples, Annexure-II - Zinc	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food samples, Annexure-II - Tin	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food samples, Annexure-II - Mercury	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food samples, Annexure-II - Arsenic	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food samples, Annexure-II - Lead	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food samples, Annexure-II - Cadmium	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Antimony	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Chromium	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Nickel	VTZ_LAB_SOP_25_2023
	Wheat Atta	Physical test in Food Products-Moulds, living and dead insects, insect, fragments, and rodent contamination (hair, excreta) visible to the naked eye	VTZ_LAB_SOP_001:2025

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Chemical: Food & Agricultural Products (cont'd.)	Wheat Atta (cont'd.)	Atta – Specification – Determination of Moisture	IS:1155-2022 (Annex A)
		Determination of Moisture - Moisture	FSSAI Manual of methods (Cereal and Cereal Products) FSSAI 03.006:2023
		Atta – Specification – Determination of Total ash	IS:1155-2022 (Annex B)
		Determination of Total Ash - Ash	FSSAI Manual of methods (Cereal and Cereal Products) FSSAI 03.011:2023
		Atta – Specification – Determination of Gluten	IS:1155-2022 (Annex D)
		Determination of Gluten - Gluten	FSSAI Manual of methods (Cereal and Cereal Products) FSSAI 03.013:2023
		Atta – Specification – Determination of Acid insoluble ash	IS:1155-2022 (Annex C)
		Determination of Ash insoluble in dil.HCL Acid insoluble Ash	FSSAI Manual of methods (Cereal and Cereal Products) FSSAI 03.012:2023
		Atta – Specification – Determination of Alcoholic Acidity	IS:1155 -2022 (Annex F)
		Determination of Alcoholic Acidity	FSSAI Manual of methods (Cereal and Cereal Products) FSSAI 03.015:2023
		Atta – Specification – Determination of Crude fiber	IS:1155-2022 (Annex E)
		Determination of Crude fiber	FSSAI Manual of methods (Cereal and Cereal Products) FSSAI 03.018:2023
	Maida	Physical test in Food Products Mould, living and dead insects, insect, fragments and rodent contamination (hair, excreta) visible to the naked eye	VTZ_LAB_SOP_001:2025
		Specification for Maida for general purposes - Determination of Gluten	IS:1009-2023 (Annex E)

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Chemical: Food & Agricultural Products (cont'd.)	Maida (cont'd.)	Determination of Gluten - Gluten	FSSAI Manual of methods (Cereal and Cereal Products) FSSAI 03.013:2023
		Specification for Maida for general purposes - Determination of Moisture	IS:1009-2023 (Annex B)
		Determination of Moisture - Moisture	FSSAI Manual of methods (Cereal and Cereal Products) FSSAI 03.006:2023
		Specification for Maida for general purposes - Determination of Total Ash	IS:1009-2023 (Annex C)
		Determination of Total Ash	FSSAI Manual of methods (Cereal and Cereal Products) FSSAI 03.011:2023
		Specification for Maida for general purposes - Determination of Acid insoluble ash	IS:1009-2023 (Annex D)
		Determination of Acid insoluble ash FSSAI	FSSAI Manual of methods (Cereal and Cereal Products) FSSAI 03.012:2023
		Specification for Maida for general purposes - Determination of Alcoholic Acidity	IS:1009-2023 (Annex F)
		Determination of Alcoholic Acidity	FSSAI Manual of methods (Cereal and Cereal Products) FSSAI 03.015:2023
	Food Grains, Milled Food Grains Cereals, Pulses (Tur dal, Moong dal, Chana) and Biproducts	Determination of Metals in Food & Feed samples by ICP-MS - Copper	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Zinc	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Tin	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Mercury	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Arsenic	VTZ_LAB_SOP_25_2023

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Chemical: Food & Agricultural Products (cont'd.)	Food Grains, Milled Food Grains Cereals, Pulses (Tur dal, Moong dal, Chana) and Biproducts (cont'd.)	Determination of Metals in Food & Feed samples by ICP-MS - Lead	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Cadmium	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Antimony	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Chromium	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Nickel	VTZ_LAB_SOP_25_2023
	Spices and Condiments- Pepper- Black (whole, powder)	Physical test in Food Products- Moulds, living and dead insects, insect, fragments, and rodent contamination (hair, excreta) visible to the naked eye	VTZ_LAB_SOP_001:2025
		Spices and Condiments – Methods of Test -Moisture	IS:1797- 2017 (Clause 9) RA :2021
		Determination of Moisture content (Dean & Stark distillation method) - Moisture	FSSAI Manual (Spices and Condiments) FSSAI 10.003:2021
		Spices and Condiments – Methods of Test -Total ash	IS:1797- 2017 (Clause 6) RA :2021
		Determination of Total Ash of Spices & Condiments- Ash	FSSAI Manual (Spices and Condiments) FSSAI 10.006:2021
		Spices and Condiments – Methods of Test - Nonvolatile ether extract	IS:1797- 2017 (Clause 14) RA :2021
		Determination of Nonvolatile ether extract	FSSAI Manual (Spices and Condiments) FSSAI 10.012:2021
		Spices and Condiments – Methods of Test -Volatile oil	IS:1797- 2017 (Clause 15) RA :2021

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Chemical: Food & Agricultural Products (cont'd.)	Spices and Condiments- Pepper- Black (whole, powder) (cont'd.)	Method for determination of Volatile Oil – Volatile Oil	FSSAI Manual (Spices and Condiments) FSSAI 10.013:2021
		Insect damaged	IS 1798 :2022 Clause 4.2
		Spices and Condiments – Methods of Test -Acid Insoluble Ash	IS:1797- 2017 (Clause 8) RA :2021
		Determination of Acid insoluble Ash of Spices & Condiments – Acid insoluble Ash	FSSAI Manual (Spices and Condiments) FSSAI 10.007:2021
		Spices and Condiments – Methods of Test -Crude Fiber	IS:1797- 2017 (Clause 13) RA :2021
		Determination of Crude fiber in spices & Condiments – Crude Fiber	FSSAI Manual (Spices and Condiments) FSSAI 10.014:2021
		Spices and Condiments – Methods of Test - Extraneous matter	IS:1797- 2017 (Clause 4) RA :2021
		Determination of Extraneous matter & other refractions in whole Spices – Extraneous matter	FSSAI Manual (Spices and Condiments) FSSAI 10.002:2021
		Determination of the percentage of Light Berries in whole black/white pepper – Light berries	FSSAI Manual (Spices and Condiments) FSSAI 10.019:2021
		Pinheads or broken berries	IS 1798 :2022 Clause 3.7 & 3.8
		Determination of Bulk density (Mass/Litre) of black pepper – Bulk density	FSSAI Manual (Spices and Condiments) FSSAI 10.018:2021
		Piperine in pepper preparations – Spectrophotometric Method - Piperine	987. 07, Chapter 43, AOAC 22 nd Edition:2023
		Determination of Piperine content in black pepper by UV visible Spectrophotometry-piperine	FSSAI Manual (Spices and Condiments) FSSAI 10.020:2021

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Chemical: Food & Agricultural Products (cont'd.)	Spices and Condiments- Pepper- Black (whole, powder) (cont'd.)		
	Turmeric - Haldi (whole, powder)	Physical test in Food Products Moulds, living and dead insects, insect, fragments and rodent contamination (hair, excreta) visible to the naked eye	VTZ_LAB_SOP_001:2025
		Spices and Condiments – Methods of Test -Moisture	IS:1797- 2017 (Clause 9) RA :2021
		Determination of Moisture content (Dean & Stark distillation method) - Moisture	FSSAI Manual (Spices and Condiments) FSSAI 10.003:2021
		Spices and Condiments – Methods of Test -Total ash	IS:1797- 2017 (Clause 6) RA :2021
		Determination of Total Ash of Spices & Condiments- Ash	FSSAI Manual (Spices and Condiments) FSSAI 10.006:2021
		Spices and Condiments – Methods of Test -Acid Insoluble Ash	IS:1797- 2017 (Clause 8) RA :2021
		Determination of Acid insoluble Ash of Spices & Condiments – Acid insoluble Ash	FSSAI Manual (Spices and Condiments) FSSAI 10.007:2021
		Specification for turmeric Oleoresin - Determination of Curcumin content	IS:10925-1984 (Appendix B) RA 2019
		Determination of curcumin content in by UV-Visible Spectrophotometry	FSSAI Manual (Spices and Condiments) FSSAI 10.030:2021
		Method of test for Edible starch & Starch products - Total starch (Acid hydrolysis method)	IS:4706(Part-2)-1978, RA 2020 (Clause 9)
		Determination of Starch content in turmeric	FSSAI Manual (Spices and Condiments)

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Chemical: Food & Agricultural Products (cont'd.)	Turmeric - Haldi (whole, powder) (cont'd.)		FSSAI 10.032:2021
		Spices & Condiments - Turmeric Whole & Ground Specifications-Test for chromates	IS:3576- 2022 (Annex B)
		Qualitative method to test for presence of chromate in turmeric – Test for Chromates	FSSAI Manual (Spices and Condiments) FSSAI 10.033:2021
		Spices and Condiments – Methods of Test - Extraneous matter	IS:1797- 2017 (Clause 4) RA :2021
		Determination of Extraneous matter & other refractions in whole Spices – Extraneous matter	FSSAI Manual (Spices and Condiments) FSSAI 10.002:2021
		Spices & Condiments - Turmeric Whole & Ground Specifications- Defective rhizome	IS:3576- 2022 (Clause 4.4)
	Cumin - Safed Zeera (whole, powder), Cumin Black - Kalonji (whole, powder)	Moulds, living and dead insects, insect, fragments and rodent contamination (hair, excreta) visible to the naked eye	VTZ_LAB_SOP_001:2025 (Physical test of Food Products)
		Spices and Condiments – Methods of Test -Moisture	IS:1797- 2017 (Clause 9) RA :2021
		Determination of Moisture content (Dean & Stark distillation method) - Moisture	FSSAI Manual (Spices and Condiments) FSSAI 10.003:2021
		Spices and Condiments – Methods of Test -Total ash	IS:1797- 2017 (Clause 6) RA :2021
		Determination of Total Ash of Spices & Condiments- Ash	FSSAI Manual (Spices and Condiments) FSSAI 10.006:2021
		Spices and Condiments – Methods of Test -Acid Insoluble Ash	IS:1797- 2017 (Clause 8) RA :2021
		Determination of Acid insoluble Ash of Spices & Condiments – Acid insoluble Ash	FSSAI Manual (Spices and Condiments) FSSAI 10.007:2021

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Chemical: Food & Agricultural Products (cont'd.)	Cumin - Safed Zeera (whole, powder), Cumin Black - Kalonji (whole, powder) (cont'd.)	Spices and Condiments – Methods of Test -Volatile oil content	IS:1797- 2017 (Clause 15) RA :2021
		Method for determination of Volatile Oil – Volatile Oil	FSSAI Manual (Spices and Condiments) FSSAI 10.013:2021
		Spices and Condiments – Methods of Test -Non-volatile ether extract	IS:1797- 2017 (Clause 14)
		Determination of Non-volatile ether extract	FSSAI Manual (Spices and Condiments) FSSAI 10.012:2021
		Spices and Condiments – Methods of Test - Extraneous matter	IS:1797- 2017 (Clause 4) RA :2021
		Determination of Extraneous matter & other refractions in whole Spices – Extraneous matter	FSSAI Manual (Spices and Condiments) FSSAI 10.002:2021
		Broken fruits (Damaged, shrivelled, Discoloured, and immature seeds)	IS 2447:2023 Clause 3.2
	Curry Powder	Physical test in Food Products-Moulds, living and dead insects, insect, fragments, and rodent contamination (hair, excreta) visible to the naked eye	VTZ_LAB_SOP_001: 2025
		Spices and Condiments – Methods of Test -Moisture	IS:1797- 2017 (Clause 9) RA :2021
		Spices and Condiments – Methods of Test -Volatile oil	IS:1797- 2017 (Clause 15) RA :2021
		Spices and Condiments – Methods of Test - Nonvolatile ether extract	IS:1797- 2017 (Clause 14) RA :2021
		Spices and Condiments – Methods of Test -Edible common salt	IS:1797- 2017 (Clause 16) RA :2021
		Spices and Condiments – Methods of Test -Acid Insoluble Ash	IS:1797- 2017 (Clause 8) RA :2021)

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Chemical: Food & Agricultural Products (cont'd.)	Curry Powder (cont'd.)	Spices and Condiments – Methods of Test -Crude Fiber	IS:1797- 2017 (Clause 13) RA :2021
	Cardamom - (capsules & seeds)	Physical test in Food Products-Moulds, living and dead insects, insect, fragments and rodent contamination (hair, excreta) visible to the naked eye	VTZ_LAB_SOP_001:2025
		Spices and Condiments – Methods of Test -Moisture	IS:1797- 2017 (Clause 9) RA :2021
		Determination of Moisture content (Dean & Stark distillation method) - Moisture	FSSAI Manual (Spices and Condiments) FSSAI 10.003:2021
		Spices and Condiments – Methods of Test -Total ash	IS:1797- 2017 (Clause 6) RA :2021
		Determination of Total Ash of Spices & Condiments- Ash	FSSAI Manual (Spices and Condiments) FSSAI 10.006:2021
		Insect damage	IS 1907:2023 Clause 2.3
		Spices and Condiments – Methods of Test -Volatile oil	IS:1797- 2017 (Clause 15) RA :2021
		Method for determination of Volatile Oil – Volatile Oil	FSSAI Manual (Spices and Condiments) FSSAI 10.013:2021
		Spices and Condiments – Methods of Test - Extraneous matter	IS:1797- 2017 (Clause 4) RA :2021
		Determination of Extraneous matter & other refractions in whole Spices – Extraneous matter	FSSAI Manual (Spices and Condiments) FSSAI 10.002:2021
	Chillies and Capsicum (whole, powder)	Physical test in Food ProductsMoulds, living and dead insects, insect, fragments, and rodent contamination (hair, excreta) visible to the naked eye	VTZ_LAB_SOP_001:2025
		Spices and Condiments – Methods of Test -Moisture	IS:1797- 2017 (Clause 9) RA :2021

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Chemical: Food & Agricultural Products (cont'd.)	Chillies and Capsicum (whole, powder) (cont'd)	Determination of Moisture content (Dean & Stark distillation method) - Moisture	FSSAI Manual (Spices and Condiments) FSSAI 10.003:2021
		Spices and Condiments – Methods of Test -Total ash	IS:1797- 2017 (Clause 6) RA :2021
		Determination of Total Ash of Spices & Condiments-Ash	FSSAI Manual (Spices and Condiments) FSSAI 10.006:2021
		Spices and Condiments – Methods of Test -Acid Insoluble Ash	IS:1797- 2017 (Clause 8) RA :2021
		Determination of Acid insoluble Ash of Spices & Condiments – Acid insoluble Ash	FSSAI Manual (Spices and Condiments) FSSAI 10.007:2021
		Insect damage	IS 2322 :2023 Clause 5.2
		Spices and Condiments – Methods of Test - Extraneous matter	IS:1797- 2017 (Clause 4) RA :2021
		Determination of Extraneous matter & other refractions in whole Spices – Extraneous	matter FSSAI Manual (Spices and Condiments) FSSAI 10.002:2021
		Spices & Condiments-Chillies, Whole and Ground (powdered) - Unripe, marked, and broken fruits and fragments	IS:2322- 2023 Annex B (Clause 5.5)
		Spices and Condiments – Methods of Test -Crude Fiber	IS:1797- 2017 (Clause 13) RA :2021
		Determination of Crude fiber of Spices & Condiments	FSSAI Manual (Spices and Condiments) FSSAI 10.014:2021
		Spices and Condiments – Methods of Test - Nonvolatile ether extract	IS:1797- 2017 (Clause 14) RA :2021
		Determination of Non-volatile ether extract	FSSAI Manual (Spices and Condiments) FSSAI 10.012:2021

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Chemical: Food & Agricultural Products (cont'd.)	Chillies and Capsicum (whole, powder) (cont'd.)		
	Cinnamon - (whole, powder)	Physical test in Food Products-Moulds, living and dead insects, insect, fragments, and rodent contamination (hair, excreta) visible to the naked eye	VTZ_LAB_SOP_001: 2025
		Spices and Condiments – Methods of Test -Moisture	IS:1797- 2017 (Clause 9) RA :2021
		Determination of Moisture content (Dean & Stark distillation method) - Moisture	FSSAI Manual (Spices and Condiments) FSSAI 10.003:2021
		Spices and Condiments – Methods of Test -Total ash	IS:1797- 2017 (Clause 6) RA :2021
		Determination of Total Ash of Spices & Condiments-Ash	FSSAI Manual (Spices and Condiments) FSSAI 10.006:2021
		Spices and Condiments – Methods of Test -Acid Insoluble Ash	IS:1797- 2017 (Clause 8) RA :2021
		Determination of Acid insoluble Ash of Spices & Condiments – Acid insoluble Ash	FSSAI Manual (Spices and Condiments) FSSAI 10.007:2021
		Spices and Condiments – Methods of Test -Volatile oil	IS:1797- 2017 (Clause 15) RA :2021
		Method for determination of Volatile Oil – Volatile Oil	FSSAI Manual (Spices and Condiments) FSSAI 10.013:2021
		Spices and Condiments – Methods of Test - Extraneous matter	IS:1797- 2017 (Clause 4) RA :2021
		Determination of Extraneous matter & other refractions in whole Spices – Extraneous matter	FSSAI Manual (Spices and Condiments) FSSAI 10.002:2021
	Cloves - (whole, ground)	Physical test in Food Products- Moulds, living and dead insects, insect,	VTZ_LAB_SOP_001: 2025

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Chemical: Food & Agricultural Products (cont'd.)	Cloves - (whole, ground) (cont'd.)	fragments, and rodent contamination (hair, excreta) visible to the naked eye	
		Spices and Condiments – Methods of Test -Moisture	IS:1797- 2017 (Clause 9) RA :2021
		Determination of Moisture content (Dean & Stark distillation method) - Moisture	FSSAI Manual (Spices and Condiments) FSSAI 10.003:2021
		Spices and Condiments – Methods of Test -Total ash	IS:1797- 2017 (Clause 6) RA :2021
		Determination of Total Ash of Spices & Condiments-Ash	FSSAI Manual (Spices and Condiments) FSSAI 10.006:2021
		Spices and Condiments – Methods of Test -Acid Insoluble Ash	IS:1797- 2017 (Clause 8) RA :2021
		Determination of Acid insoluble Ash of Spices & Condiments – Acid insoluble Ash	FSSAI Manual (Spices and Condiments) FSSAI 10.007:2021
		Spices and Condiments – Methods of Test -Volatile oil	IS:1797- 2017 (Clause 15) RA: 2021
		Method for determination of Volatile Oil – Volatile Oil	FSSAI Manual (Spices and Condiments) FSSAI 10.013:2021
		Spices and Condiments – Methods of Test -Crude Fiber	IS:1797- 2017 (Clause 13) RA :2021
		Determination of Crude fiber of Spices & Condiments	FSSAI Manual (Spices and Condiments) FSSAI 10.014:2021
		Insect damage	IS 4404 :2022 - Clause 4.5
		Spices and Condiments – Methods of Test - Extraneous matter	IS:1797- 2017 (Clause 4) RA :2021
		Determination of Extraneous matter & other refractions in whole Spices – Extraneous matter	FSSAI Manual (Spices and Condiments) FSSAI 10.002:2021
		Tendrils, Mother cloves	IS 4404 :2022 - Clause 4.5

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Chemical: Food & Agricultural Products (cont'd.)	Cloves - (whole, ground) (cont'd.)	Khokar cloves	IS 4404 :2022 - Clause 4.5
		Headless cloves	IS 4404 :2022 - Clause 4.5
	Coriander - (whole, ground)	Physical test in Food Products- Moulds, living and dead insects, insect, fragments, and rodent contamination (hair, excreta) visible to the naked eye	VTZ_LAB_SOP_001: 2025
		Spices and Condiments – Methods of Test -Moisture	IS:1797- 2017 (Clause 9) RA :2021
		Determination of Moisture content (Dean & Stark distillation method) - Moisture	FSSAI Manual (Spices and Condiments) FSSAI 10.003:2021
		Spices and Condiments – Methods of Test -Total ash	IS:1797- 2017 (Clause 6) RA : 2021
		Determination of Total Ash of Spices & Condiments- Ash	FSSAI Manual (Spices and Condiments) FSSAI 10.006:2021
		Spices and Condiments – Methods of Test -Acid Insoluble Ash	IS:1797- 2017 (Clause 8) RA : 2021
		Determination of Acid insoluble Ash of Spices & Condiments – Acid insoluble Ash	FSSAI Manual (Spices and Condiments) FSSAI 10.007:2021
		Spices and Condiments – Methods of Test -Volatile oil	IS:1797- 2017 (Clause 15) RA : 2021
		Method for determination of Volatile Oil – Volatile Oil	FSSAI Manual (Spices and Condiments) FSSAI 10.013:2021
		Shriveled and immature fruits	IS:2443- 2014 & IS:1797- 2017 (Clause 4.1)
		Spices and Condiments – Methods of Test - Extraneous matter	IS:1797- 2017 (Clause 4)
		Determination of Extraneous matter & other refractions in whole Spices – Extraneous matter	FSSAI Manual (Spices and Condiments) FSSAI 10.002:2025

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Chemical: Food & Agricultural Products (cont'd.)	Coriander - (whole, ground) (cont'd.)	Split fruits	IS 2443: 2008 & IS:1797-2017 (Clause 4.0)
		Damaged, discolored and weeviled fruits	IS:2443- 2008 & IS:1797-2017 (Clause 4.1)
	Spices and Condiments (Chilli, Pepper, Coriander, Turmeric, Cumin, Cloves Masala, Curry Powder Sambar Powder, Garam Masala, Rasam Powder)	Determination of Metals in Food & Feed samples by ICP-MS - Copper	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Zinc	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Tin	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Mercury	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Arsenic	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Lead	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Cadmium	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Antimony	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Chromium	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Nickel	VTZ_LAB_SOP_25_2023
	Vegetable and Vegetable Products (Pickles)	Determination of pH of Cut-out Syrup – pH	IS:2860- 1964, RA 2008 Clause 8
		Determination of pH value - pH	FSSAI Manual of Methods Fruit and Vegetable Products:2016 Clause 2.3
		Protein in fruit products (Kjeldahl method)- Protein	920.152, Chapter 37, AOAC 22 nd Edition:2023
		Determination of Protein in Foods & Feeds - Protein	IS:7219-1973, RA 2020

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Chemical: Food & Agricultural Products (cont'd.)	Vegetable and Vegetable Products (Pickles) (cont'd.)	Determination of Sodium chloride in brine-Salt	IS:2860- 1964, RA 2018 - Clause 11
		Acidity (Titratable) of Fruit products – Titratable Acidity	942.15, Chapter 37, AOAC 22 nd Edition:2023
		Acidity of cut-out syrup – Titratable Acidity	IS:2860- 1964, RA 2018 Clause 10
		Drained weight / Net weight	IS:2860- 1964, RA 2018 – Clause 7
		Sulphites in foods (Optimised Monier – Williams method) – Sulphur dioxide	990.28, Chapter 47, AOAC 22 nd Edition:2023
	Fruit and Fruit Products (Jam, Jellies, Marmalades)	Determination of pH of Cut-out Syrup- pH	IS:2860- 1964, RA 2018 Clause 8
		Determination of pH value - pH	FSSAI Manual of Methods Fruit and Vegetable Products:2016 - Clause 2.3
		Methods of Sampling & Analysis for sugar Confectionery – Reducing Sugars	IS:6287- 1985 RA 2020 (Clause 8)
		Methods of Sampling & Analysis for sugar Confectionery – Sucrose	IS:6287- 1985 RA 2020 (Clause 9)
		Acidity of cut-out syrup – Titratable Acidity	IS:2860- 1964, RA 2018 Clause 10
		Determination of Acidity – Titratable Acidity	FSSAI Manual of Methods Fruit and Vegetable Products:2016 - Clause 2.4
		Sulphites in foods (Optimised Monier – Williams method) – Sulphur dioxide	990.28, Chapter 47, AOAC 22 nd Edition:2023
		Solids (Water Insoluble) in fruit & Fruit products -Water insoluble solids	922.10, Chapter 37, AOAC 22 nd Edition :2023 Method -1
		Ash of Fruit & Fruit products-Ash	940.26, Chapter 37, AOAC 22 nd Edition :2019 Method A
	Fruit and Vegetable Products	Determination of pH of Cut-out Syrup – pH	IS:2860- 1964, RA 2018 Clause 8

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Chemical: Food & Agricultural Products (cont'd.)	(dehydrated and frozen fruits and vegetables)	Determination of Sodium chloride in brine-Salt	IS:2860- 1964, RA 2018 - Clause 11
		Methods of Sampling & Analysis for sugar Confectionery – Reducing Sugars	IS:6287- 1985 RA 2020(Clause 8)
		Methods of Sampling & Analysis for sugar Confectionery – Sucrose	IS:6287- 1985 RA 2020 (Clause 9)
		Acidity (Titratable) of Fruit products – Titratable Acidity	942.15, Chapter 37, AOAC 22nd Edition:2023
		Ash of Fruit & Fruit products-Ash	940.26, Chapter 37, AOAC 22nd Edition :2023 Method A
		Determination of Moisture-Moisture	FSSAI Manual of Methods (Fruit and Vegetable Products),2016 – Clause 4.1
		Determination of Acid insoluble in HCL-Acid Insoluble Ash	FSSAI Manual of Methods (Fruit and Vegetable Products),2016 – Clause 5.3
		Method of test for Edible starch & Starch products - Total starch (Acid hydrolysis method)	IS:4706(Part-2)-1978, RA 2020 (Clause 9)
	Ketchup, Sauces, Culinary Paste	Sulphites in foods (Optimised Monier – Williams method) – Sulphur dioxide	990.28, Chapter 47, AOAC 22nd Edition:2023
		Solids (Total) in fruits & fruit products- Total solids	920.151, Chapter 37, AOAC 22 nd Edition :2023
		Determination of pH of Cut-out Syrup – pH	IS:2860- 1964, RA 2018 - Clause 8
		Determination of pH-pH	IS:3881- 1993 RA 2018 – Annex D
		Protein in fruit products (Kjeldahl method)- Protein	920.152, Chapter 37, AOAC 22 nd Edition:2023
		Determination of Protein in Foods & Feeds - Protein	IS:7219-1973, RA 2020
		Determination of Sodium chloride in brine-Salt	IS:2860- 1964, RA 2018 - Clause 11
		Methods of Sampling & Analysis for sugar	IS:6287- 1985 RA 2020 (Clause 8)

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Chemical: Food & Agricultural Products (cont'd.)	Ketchup, Sauces, Culinary Paste (cont'd.)	Confectionery – Reducing Sugars	
		Methods of Sampling & Analysis for sugar Confectionery – Sucrose	IS:6287- 1985 RA 2020 (Clause 9)
		Acidity (Titratable) of Fruit products – Titratable Acidity	942.15, Chapter 37, AOAC 22 nd Edition:2023
		Determination of Titratable Acidity	FSSAI Manual of Methods (Fruit and Vegetable Products) 2016 - Clause 2.4
		Acidity of cut-out syrup – Titratable Acidity	IS:2860- 1964, RA 2018 Clause 10
		Determination of percentage fill of container in fruit and vegetable products-Fill of container	LAB _P _SOP _250: 2014
		Determination of Ash In-soluble in Ash in Fruits and Vegetable product - Acid Insoluble Ash	FSSAI Manual of Methods (Fruit and Vegetable Products) 2016 -Clause 5.3
	Fruit Juice/ Beverages, Squash, Cordial, Crush, Carbonated Juices	Solids (Total) in fruits & fruit products- Total solids	920.151, Chapter 37, AOAC 22 nd Edition :2023
		Determination of pH of Cut-out Syrup – pH	IS:2860- 1964, RA 2018 Clause 8
		Determination of pH-pH	FSSAI Manual of Methods (Fruit and Vegetable Products):2016 - Clause 2.3
		Methods of Sampling & Analysis for sugar Confectionery – Reducing Sugars	IS:6287- 1985 RA 2020 (Clause 8)
		Determination of Total sugars – Reducing sugars	FSSAI Manual of Methods (Fruit and Vegetable Products) 2016 - (Clause 2.6)
		Methods of Sampling & Analysis for sugar Confectionery – Sucrose	IS:6287- 1985 RA 2020 (Clause 9)
		Determination of Total sugars – Sucrose	FSSAI Manual of Methods (Fruit and Vegetable Products) (Clause 2.6)
		Acidity (Titratable) of Fruit products – Titratable Acidity	942.15, Chapter 37, AOAC 22 nd Edition:2023

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Chemical: Food & Agricultural Products (cont'd.)	Fruit Juice/ Beverages, Squash, Cordial, Crush, Carbonated Juices (cont'd.)	Determination of Titratable Acidity	FSSAI Manual of Methods (Fruit and Vegetable Products) 2016 - Clause 2.4
		Sulphites in foods (Optimised Monier – Williams method) – Sulphur dioxide	990.28, Chapter 47, AOAC 22 nd Edition:2023
	Alcoholic and Non-Alcoholic Beverages (including carbonated beverages)	Determination of Metals in Food & Feed samples by ICP-MS - Copper	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Zinc	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Tin	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Mercury	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Arsenic	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Lead	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Cadmium	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Antimony	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Chromium	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Nickel	VTZ_LAB_SOP_25_2023
	Coffee	Determination of Total ash	IS 3077: 2022 – Annex D
		Determination of Total ash	FSSAI Manual of Methods (Beverages) FSSAI 04A.003:2023
		Determination of Acid insoluble ash	IS 3077: 2022 – Annex E

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
Chemical: Food & Agricultural Products (cont'd.)	Coffee (cont'd.)	Determination of Acid insoluble ash	FSSAI Manual of Methods (Beverages) FSSAI 04A.007:2023
		Determination of Water-soluble ash	IS 3077: 2022 – Annex D & F
		Determination of water-soluble ash	FSSAI Manual of Methods (Beverages) FSSAI 04A.006:2023
		Determination of Alkalinity of Soluble Ash -Alkalinity of ash	IS 3077: 2022 – Annex G
		Determination of Alkalinity of Ash	FSSAI Manual of Methods (Beverages) FSSAI 04A.008:2023
		Determination of Petroleum Ether Extract-Ether extract	IS 3077: 2022 – Annex J
		Determination of Water-Soluble Matter	IS 3077: 2022 – Annex H
		Determination of Moisture	IS 16030 :2012
		Determination of Moisture	FSSAI Manual of Methods (Beverages) FSSAI 04A.001:2023
		Crude fiber in roaster coffee	920.98, Chapter 30 AOAC 22 nd Edition :2023
	Tea (black tea, green tea, instant tea)	Tea - Determination of Total Ash	IS:13854- 1994 RA 2019
		Determination of Total Ash	FSSAI Manual of Methods (Beverages) FSSAI 04A.003:2023
		Tea – Determination of Acid insoluble ash	IS:13857- 1993 RA 2023
		Determination of Ash insoluble in dil HCL-Acid insoluble Ash	FSSAI Manual of Methods (Beverages) FSSAI 04A.007:2023
		Tea- Determination of Water-soluble ash & water insoluble Ash	IS:13855-1993 RA 2023
		Determination of Water-soluble ash	FSSAI Manual of Methods (Beverages) FSSAI 04A.006:2023

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Chemical: Food & Agricultural Products (cont'd.)	Tea (black tea, green tea, instant tea) (cont'd.)	Tea-Determination of Alkalinity of water soluble ash	IS:13856-1993 RA 2023
		Determination of Alkalinity of water- soluble ash	FSSAI Manual of Methods (Beverages) FSSAI 04A.009:2023
		Tea – Determination of Loss in mass at 103°C – Moisture	IS:13853-1994 RA 2023
		Determination of Moisture	FSSAI Manual of Methods (Beverages) FSSAI 04A.001:2023
		Tea - Determination of Water Extract	IS:13862- 1999 RA 2019
		Determination of Aqueous extract	FSSAI Manual of Methods (Beverages) FSSAI 04A.010:2023
		Content of total poly phenols in tea – Colorimetric method using folin – Ciocaitau reagent – Total polyphenols (as catechins)	ISO:14502-1- 2005
		Methods for determination of Crude fiber content in food products – Crude fiber	IS:10226 (P1)- 1982 RA 2020
		Determination of crude fiber	FSSAI Manual of Methods (Beverages) FSSAI 04A.018:2023
		Determination of iron filings & size of the particles-Test for Iron filings	FSSAI Manual of Methods (Beverages) FSSAI 04A.021:2023

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Testing Laboratory TL-1079

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.

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
Chemical: Food & Agricultural Products (cont'd.)	Coffee, Tea, Cocoa and By Products	Determination of Metals in Food & Feed samples by ICP-MS - Copper	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS -zinc	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Tin	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Mercury	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Arsenic	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Lead	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Cadmium	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food samples -Annexure-II - Manganese	Lab_P_SOP_036
		Determination of Metals in Food & Feed samples by ICP-MS - Chromium	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food samples -Annexure-II - Iron	Lab_P_SOP_036
		Determination of Metals in Food & Feed samples by ICP-MS - Nickel	VTZ_LAB_SOP_25_2023

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Chemical: Food & Agricultural Products (cont'd.)	Chocolates / Toffees Sugar Boiled/Hard Boiled /Chewing Gum/ Confectionery, Lozenges	Determination of Metals in Food & Feed samples by ICP-MS - Copper	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Zinc	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Tin	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Mercury	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Arsenic	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Lead	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Cadmium	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Antimony	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Chromium	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Nickel	VTZ_LAB_SOP_25_2023
	Ghee	Determination of Reichert – Meissl value	IS 548 (Part 1): 1964 (RA 2020) - Clause 18
		Determination of Free fatty acid as oleic acid	IS 548 (Part 1): 1964 (RA 2020) – Clause 7.3.1
		Physical test of Food Products – filthy, putrid, rotten, decomposed, or diseased animal substance or vegetable substance, worms, weevils or insects	VTZ_LAB_SOP_001:2025
		Test for mineral oil	FSSAI Manual of Methods (Oils and Fats). FSSAI 02.029:2021
		Determination of Moisture	IS 3508:1966 Clause 4

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Chemical: Food & Agricultural Products (cont'd.)	Ghee (cont'd.)	Test for rancidity	Fssai Manual of Methods (Oils & Fats) FSSAI 02.043:2021
		Baudouin Test	IS 3508:1966 Clause 21
	Butter	Determination of Moisture	IS:3507- 1966 RA 2009 Clause 4
		Determination of Moisture in Butter – Moisture	FSSAI Manual of Methods (Dairy and Dairy Products) FSSAI 01.080:2022
		Determination of Curd	IS:3507- 1966 RA 2009 – Clause 5
		Determination of Milk Fat	IS:3507- 1966 RA 2009 – Method 2 of Clause 6
		Solids-not-fat in Milk (by difference between total solids & fat contents)	990.21 Chapter 33 AOAC 22 nd Edition 2019
		Test for rancidity (Qualitatively)	FSSAI Manual of Methods (Oils & Fats) FSSAI 02.043:2021
		Test for mineral oil	FSSAI Manual of Methods (Oils and Fats) FSSAI 02.029:2021
		Determination of Salt	IS:3507- 1966 RA 2009 - Clause 7 (Method 1 &2)
		Physical test of Food Products – filthy, putrid, rotten, decomposed, or diseased animal substance or vegetable substance, worms, weevils or insects	VTZ_LAB_SOP_001:2025
	Bakery Products: Bread, Cakes, Biscuits	Determination of Metals in Food & Feed samples by ICP-MS - Copper	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Zinc	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Tin	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Mercury	VTZ_LAB_SOP_25_2023

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Chemical: Food & Agricultural Products (cont'd.)	Bakery Products: Bread, Cakes, Biscuits (cont'd)	Determination of Metals in Food & Feed samples by ICP-MS - Arsenic	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Lead	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Cadmium	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Antimony	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Chromium	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Nickel	VTZ_LAB_SOP_25_2023
	Macaroni, Spaghetti, Vermicelli and Noodles	Determination of Metals in Food & Feed samples by ICP-MS - Copper	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Zinc	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food samples Annexure-II - Tin	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Tin	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Mercury	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Arsenic	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Lead	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Cadmium	VTZ_LAB_SOP_25_2023

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Chemical: Food & Agricultural Products (cont'd.)	Macaroni, Spaghetti, Vermicelli and Noodles (cont'd.)	Determination of Metals in Food & Feed samples by ICP-MS - Antimony	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Chromium	VTZ_LAB_SOP_25_2023
	Nut & Nut Products: Cashew Nuts /Almonds/Pistachio	Determination of Metals in Food & Feed samples by ICP-MS - Copper	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Zinc	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Tin	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Mercury	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Arsenic	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Lead	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Cadmium	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Antimony	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Chromium	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Nickel	VTZ_LAB_SOP_25_2023
	Fruit Products- Fruit Juices	Determination of Metals in Food & Feed samples by ICP-MS - Copper	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Zinc	VTZ_LAB_SOP_25_2023

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Chemical: Food & Agricultural Products (cont'd.)	Fruit Products- Fruit Juices (cont'd.)	Determination of Metals in Food & Feed samples by ICP-MS - Tin	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Mercury	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Arsenic	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Lead	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Cadmium	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Antimony	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Chromium	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Nickel	VTZ_LAB_SOP_25_2023
	Sugar and Sugar Products	Determination of Metals in Food & Feed samples by ICP-MS - Copper	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Zinc	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Tin	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Mercury	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Arsenic	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Lead	VTZ_LAB_SOP_25_2023

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Chemical: Food & Agricultural Products (cont'd.)	Sugar and Sugar Products (cont'd.)	Determination of Metals in Food & Feed samples by ICP-MS - Cadmium	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Antimony	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Chromium	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food & Feed samples by ICP-MS - Nickel	VTZ_LAB_SOP_25_2023
		Determination of Metals in Food samples Annexure-II - Iron	Lab_P_SOP_036
	Aquaculture Feed Ingredients, Aquaculture Feed Additives, Fish, Shrimps, Prawn Feed & Others	Methods of tests for Animal Feed and Feeding Stuffs - Determination of Moisture	IS:7874(Part I)- 1975 RA 2019 (Clause 4)
		Loss on drying (Moisture) at 95-100°C for feeds- Moisture	934.01, Chapter 4, AOAC 22 nd Edition :2023
		Methods of tests for Animal Feed and Feeding Stuffs - Determination of Crude fat	IS:7874(Part I)- 1975 RA 2019 (Clause 7)
		Fat (Crude) or ether extract in animal feed- Crude Fat	920.39, Chapter 4, AOAC 22 nd Edition:2023
		Methods of tests for Animal Feed and Feeding Stuffs - Determination of Crude Protein	IS:7874(Part I)- 1975 RA 2019 (Clause 5)
		Crude protein in animal feed and pet food – Copper catalyst Kjeldahl method – Crude protein	984.13, Chapter 4, AOAC 22 nd Edition:2023
		Methods of tests for Animal Feed and Feeding Stuffs - Determination of Total Ash	IS:7874(Part I)- 1975 RA 2019 (Clause 9)
		Ash of Animal feed	942.05, Chapter 4, AOAC 22 nd Edition:2023
		Total Sugars in animal feed (modified Fehling's solution method) – Total sugars	974.06, Chapter 4, AOAC 22 nd Edition:2023
		Methods of tests for Animal Feed and Feeding Stuffs -	IS:7874(Part I)- 1975 RA 2019 (Clause 8)
	Aquaculture Feed Ingredients, Aqua-		

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Chemical: Food & Agricultural Products (cont'd.)	culture Feed Additives, Fish, Shrimps, Prawn Feed & Others (cont'd.)	Determination of Crude fiber	
		Determination of Metals in Food samples, (Annexure-II) - Zinc	Lab_P_SOP_036: 2018
		Determination of Metals in Food samples, (Annexure-II) - Copper	Lab_P_SOP_036: 2018
		Determination of metals in Feed samples by ICPMS – Mercury as Hg	VTZ_LAB_SOP_25:2023
		Determination of metals in Feed samples by ICPMS – Arsenic as As	VTZ_LAB_SOP_25:2023
		Determination of metals in Feed samples by ICPMS – Cadmium as Cd	VTZ_LAB_SOP_25:2023
		Determination of metals in Feed samples by ICPMS – Lead as Pb	VTZ_LAB_SOP_25:2023
	Fish & Fish Products, Crustaceans, Cephalopods	Total Solids in sea food (gravimetric Method)- Moisture	952.08, Chapter 35, AOAC 22 nd Edition:2023 Method A
		Crude Fat in sea food (Acid hydrolysis method)	948.15, Chapter 35, AOAC 22 nd Edition:2023
		Total Nitrogen in sea food	940.25, Chapter 35, AOAC 22 nd Edition:2023
		Total Ash in sea food	938.08, Chapter 35, AOAC 22 nd Edition:2023
		Salt (Chlorine as Sodium Chloride in sea food)	937.09, Chapter 35, AOAC 22 nd Edition:2023
		SOP for Determination of Total Volatile Base Nitrogen in Fish & Fishery products – TVBN	LAB_P_SOP_129: 2021
		Sulphites in foods (Optimized Monier – Williams method) – Sulphur dioxide	990.28, Chapter 47, AOAC 22 nd Edition:2023
	Fish & Fish Products,	Meat & Meat products – Methods of test Polyphosphates	IS:5960 (Part 13):2024 /ISO5553:2024

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	Crustaceans, Cephalopods (cont'd.)	SOP for estimation of Phosphorous in sea food- Total Phosphate	Lab_P_SOP_190:2021
		Acid Insoluble Ash	IS 14950 :2001, RA 2018 Annex F
	Fish & Fish Products, Crustaceans, Cephalopods	Determination of metals in food samples by ICPMS-Copper as Cu	VTZ_LAB_SOP_025:2023
		Determination of metals in food samples by ICPMS-Zinc as Zn	VTZ_LAB_SOP_025:2023
		Determination of metals in food samples by ICPMS-Tin as Sn	VTZ_LAB_SOP_025:2023
		Determination of metals in food samples by ICPMS-Mercury as Hg	VTZ_LAB_SOP_025:2023
		Determination of metals in food samples by ICPMS-Arsenic as As	VTZ_LAB_SOP_025:2023
		Determination of metals in food samples by ICPMS-Cadmium as Cd	VTZ_LAB_SOP_025:2023
		Determination of metals in food samples by ICPMS-Lead as Pb	VTZ_LAB_SOP_025:2023
		Determination of metals in food samples by ICPMS-Chromium as Cr	VTZ_LAB_SOP_025:2023
		Determination of metals in food samples by ICPMS-Nickel as Ni	VTZ_LAB_SOP_025:2023
		Determination of Methyl mercury in food and feed by LC ICPMS – Methyl Mercury as CH ₃ Hg	VTZ_LAB_SOP_027:2022
Chemical: Water	Drinking Water, Packaged Drinking Water, Mineral Water, Process Water	Methods of sampling and test (Physical & Chemical) for water & Wastewater - Part 4 - Colour	IS: 3025 Part (4):2021
		Colour – Visual Comparison method	2120 B of APHA 24th Edition 2023

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Chemical: Water	Drinking Water, Packaged Drinking Water, Mineral	Methods of sampling and test (Physical & Chemical) for water & Wastewater – Part 16 - Filterable Residue (Total dissolved solids)	IS: 3025 Part (16) :2023
		Total Dissolved solids Dried at 180 °C	2540 C of APHA 24th Edition 2023
		Methods of sampling and test (Physical & Chemical) for water & Wastewater – Part 5 -Odour	IS: 3025 PART (5) :2018
		Threshold Odor test - Odour	2150 B of APHA 24th Edition 2023
		Methods of sampling and test (Physical & Chemical) for water & Wastewater – Part 10-Turbidity	IS: 3025 PART (10) :2023
		Methods of sampling and test (Physical & Chemical) for water & Wastewater - Taste	IS:3025 PART (8) :2023
		Taste (Flavour rating Assessment)	2160 C of APHA 24th Edition 2023
		Turbidity-Nephelometric Method	2130 B of APHA 24th Edition 2023
		Methods of sampling and test (Physical & Chemical) for water & Wastewater - part 26(Clause 4) – Chlorine, Residual	IS: 3025 PART (26) :2021
		Methods of sampling and test (Physical & Chemical) for water & Wastewater – Part 52- Hexavalent chromium	IS: 3025 PART (52) : 2003, RA-2023 (Clause 6)
		Colorimetric Method - Hexavalent chromium	3500 Cr B of APHA 24th Edition 2023
		Methods of sampling and test (Physical & Chemical) for water & Wastewater – Part 34(Clause 4.6.1) – Nitrites (Nitrogen)	IS: 3025 Part (34): Sec-1: 2023

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
(cont'd.)	Water, Process Water (cont'd.)	Colorimetric Method - Nitrites	4500 NO2 B of APHA 24th Edition 2023
		Methods of sampling and test (Physical & Chemical) for water & Wastewater - part 11- pH value	IS: 3025 Part (11): 2022
		Electrometric Method – pH Value	4500 H+ B of APHA 24th Edition 2023
		Methods of sampling and test (Physical & Chemical) for water & Wastewater –	IS: 3025 Part (21): 2023
		Part 21(Clause -5.0)- Hardness (as CaCO3)	
		EDTA Titrimetric Method - Hardness	2340 C of APHA 24th Edition 2023
		Ultraviolet Spectrophotometric Screening Method - Nitrate (Nitrogen)	4500 NO3 B of APHA 24th Edition 2023
		SPADNS Method - Fluoride (as F)	4500- F- D of APHA 24th Edition 2023
		Methods of sampling and test (Physical & Chemical) for water & Wastewater – Part 32(Clause -2) - Chloride	IS: 3025 Part (32) : 1988, RA-2019
		Argentometric Method - Chloride	4500 Cl- B of APHA 24th Edition 2023
	Drinking Water, Packaged Drinking Water, Mineral	Methods of sampling and test (Physical & Chemical) for water & Wastewater – Part 14 -Specific Conductance	IS:3025(Part-14):2023
		Electrical Conductivity Method - Conductivity	2510B, APHA24rd Edition 2023
		Water Quality – Determination of Permanganate Index – Oxidisability	ISO 8467:1993
		Total Organic Carbon	Lab_P_SOP_271: 2023
		Bromate in Water	Lab_P_SOP_146 :2023

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Chemical: Water (cont'd.)	Water, Process Water (cont'd.)	Methods of sampling and test (Physical & Chemical) for water & Wastewater – Part 24 (Clause 4) Turbidity Method - Sulphates (as SO ₄)	IS: 3025 Part (24): Sec-1: 2022
		Turbidimetric Method – Sulphates	4500-SO ₄ – E of 24th Edition 2023
		Methods of sampling and test (Physical & Chemical) for water & Wastewater – Part 23-Alkalinity (as CaCO ₃)	IS : 3025 Part (23) : 2023
		Titration Method - Alkalinity	2320 B of APHA 24th Edition 2023
		Methods of sampling and test (Physical & Chemical) for water & Wastewater – Part 15-Total Solids	IS: 3025 Part (15): 2023
		Methods of sampling and test (Physical & Chemical) for water & Wastewater – Part 40 (Clause 5) - Calcium	IS: 3025 Part (40): 2024
		EDTA Titrimetric method - Calcium	3500 - Ca B of APHA 24th Edition 2023
		Methods of sampling and test (Physical & Chemical) for water & Wastewater – Part 15 (Clause 6) - Phenols	IS: 3025 Part (43): Sec-1: 2023
		Chloroform Extraction Method - Phenol	5530 C of APHA 24 th Edition 2023
		Methods of sampling and test (Physical & Chemical) for water & Wastewater – Part 46 (Clause 6) - Magnesium	IS: 3025 Part (46): 2023
Chemical: Water (cont'd.)	Drinking Water, Packaged Drinking Water, Mineral Water, Process Water	Calculation Method - Magnesium	3500- Mg B of APHA 24 th Edition 2023
		Determination of Metals in Water by AAS-Sodium (as Na)	Lab_P_SOP_037

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
	(cont'd.)	Packaged Natural Mineral Water- Specification (Annexure - K) - Anionic Surface active Agents as MBAS	IS: 3025 part (68): 2019, RA-2023
		Anionic Surfactants as MBAS	5540 C of APHA APHA 24 th Edition 2023
		Methods of sampling and test (Physical & Chemical) for water & Wastewater – Part 29 (Clause 2) - Sulphide	IS: 3025 Part (29): 2022
		Iodometric Method - Sulphide	4500 S2- F of APHA 24 th Edition 2023
		Methods of sampling and test (Physical & Chemical) for water & Wastewater – Part 27-Cyanide as CN	IS:3025 Part (27): Sec-1 : 2022
		Total Cyanide	4500 CN- E of APHA 24 th Edition 2023
		Methods of sampling and test (Physical & Chemical) for water & Wastewater - part 26 (Clause 4) - Chloramines as Cl2	IS: 3025 PART (26): Sec-1 : 2021
		Methods of sampling and test (Physical & Chemical) for water & Wastewater – Part 34 (Clause 2.5) - Ammonia (Ammoniacal Nitrogen)	IS :3025 Part (34): Sec-1: 2023
		Titrimetric Method - Ammonia	4500 –NH3 C of APHA 24 th Edition 2023
		Methods of sampling and test (Physical & Chemical) for water & Wastewater - part 38 (Clause 4) - Dissolved oxygen	IS 3025 (Part 38): 1989, RA-2019
Chemical: Water (cont'd.)	Drinking Water, Packaged Drinking Water, Mineral Water, Process Water	Determination of Trace Metals in Water by ICPMS- Aluminium as Al	VTZ _LAB_SOP_24:2023

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
	(cont'd.)	Determination of Trace Metals in Water by ICPMS- Boron as B	VTZ _LAB_SOP_24:2023
		Determination of Trace Metals in Water by ICPMS- copper as Cu	VTZ _LAB_SOP_24:2023
		Determination of Trace Metals in Water by ICPMS- Iron as Fe	VTZ _LAB_SOP_24:2023
		Determination of Trace Metals in Water by ICPMS- Manganese as Mn	VTZ _LAB_SOP_24:2023
		Determination of Trace Metals in Water by ICPMS- Zinc as Zn	VTZ _LAB_SOP_24:2023
		Determination of Trace Metals in Water by ICPMS- Nickel as Ni	VTZ _LAB_SOP_24:2023
		Determination of Trace Metals in Water by ICPMS- Selenium as Se	VTZ _LAB_SOP_24:2023
		Determination of Trace Metals in Water by ICPMS- Mercury as Hg	VTZ _LAB_SOP_24:2023
		Determination of Trace Metals in Water by ICPMS- Cadmium as Cd	VTZ _LAB_SOP_24:2023
		Determination of Trace Metals in Water by ICPMS- Arsenic as As	VTZ _LAB_SOP_24:2023
		Determination of Trace Metals in Water by ICPMS- Lead as Pb	VTZ _LAB_SOP_24:2023
		Determination of Trace Metals in Water by ICPMS- Chromium as Cr	VTZ _LAB_SOP_24:2023
		Determination of Trace Metals in Water by ICPMS- Barium as Ba	VTZ _LAB_SOP_24:2023
Chemical: Water (cont'd.)	Drinking Water, Packaged Drinking Water, Mineral Water, Process Water	Determination of Trace Metals in Water by ICPMS- Sodium as Na	VTZ _LAB_SOP_24:2023

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
	(cont'd.)	Determination of Trace Metals in Water by ICPMS-Silver as Ag	VTZ_LAB_SOP_24:2023
		Determination of Trace Metals in Water by ICPMS-Antimony as Sb	VTZ_LAB_SOP_24:2023
		Determination of Trace Metals in Water by ICPMS-Molybdenum as Mo	VTZ_LAB_SOP_24:2023
		Determination of Trace Metals in Water by ICPMS-Uranium as U	VTZ_LAB_SOP_24:2023
		Analysis of Halo acetic acids: monobromoacetic acid (MBAA), dibromoacetic acid (DBAA), tribromoacetic acid (TBAA), monochloroacetic acid (MCAA), dichloroacetic acid (DCAA), trichloroacetic acid (TCAA), bromo chloroacetic acid (BCAA), chlorodibromoacetic acid (CDBAA) and bromodichloroacetic acid (BDCAA) in water	VTZ_LAB_SOP_038
Chemical Residues: Food	Marine / Aqua Culture Food Products - Crustaceans (Shrimp, Prawn & their products), Fish & Fish products	Determination of Chloramphenicol & Florfenicol in Marine / Aqua culture Food Products -Crustaceans (Shrimp, Prawn & their products), Fish & Fish products by LCMS/MS	VTZ_LAB_SOP_004:2022
		Determination of Nitrofurans Metabolites: 1-aminohydantoin (AHD), 3-amino-5-morpholinomethyl-2-oxazolidinone (AMOZ), 3-amino-2-oxazolidinone (AOZ), semi carbazide (SEM), 3,5 dinitro salicylic Acid Hydrazide (DNSH) in Marine /Aqua culture Food Products -Crustaceans (Shrimp, Prawn & their	LAB_P_SOP_44:2023
Chemical Residues: Food	Marine / Aqua Culture Food		

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
(cont'd.)	Products - Crustaceans (Shrimp, Prawn & their products), Fish & Fish products (cont'd.)	products), Fish & Fish products by LCMS/MS	
		Determination of Tetracyclines: Tetracycline (expressed as sum of Tetracycline and it's 4-epimer), Oxytetracycline (expressed as sum of Oxytetracycline and it's 4-epimer), Chlortetracycline (expressed as sum of Chlortetracycline and it's 4-epimer) & Doxycycline in Marine / Aqua culture Food Products -Crustaceans (Shrimp, Prawn & their products), Fish & Fish products by LCMS/MS	VTZ_LAB_SOP_005:2022
		Determination of Quinolones & Fluoroquinolones: Oxolinic Acid, Sarafloxacin, Flumequine, Danofloxacin, Difloxacin, Enrofloxacin (Sum of Enrofloxacin and Ciprofloxacin), Nalidixic acid, Norfloxacin, Ofloxacin in Marine / Aqua culture Food Products - Crustaceans (Shrimp, Prawn & their products), Fish & Fish products by LCMS/MS	VTZ_LAB_SOP_005:2022
Chemical Residues: Food (cont'd.)	Marine / Aqua Culture Food Products -	Determination of Sulphonamides: Sulfachloropyridazine, Sulfamethoxypyridazine, Sulfadimethoxine, Sulfamethizole, Sulfamethoxazole, Sulfadiazine, Sulfamethazine, Sulfamerazine, Sulfathiazole, Sulfapyridine, Sulfadoxine, Sulfisoxazole, Sulfaquinoxaline, Trimethoprim, in Marine /	VTZ_LAB_SOP_005:2022

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Chemical Residues: Food (cont'd.)	Crustaceans (Shrimp, Prawn & their products), Fish & Fish products (cont'd.)	Aqua culture Food Products -Crustaceans (Shrimp, Prawn & their products), Fish & Fish products by LCMS/MS	
		Determination of Anthelmintics: Ivermectin and Emamectin in Marine / Aqua culture Food Products -Crustaceans (Shrimp,Prawn & their products), Fish & Fish products by LCMS/MS	Lab_P_SOP_315:2021
		Determination of Nitrofurans parent: Nitrofurazone, Nitrofurantoin, Furaladone, Furazolidone, Nifursol in Marine / Aqua culture Food Products -Crustaceans (Shrimp,Prawn & their products), Fish & Fish products by LCMS/MS	Lab_P_SOP_96:2023
		Determination of Dyes: Crystal violet, Leuco Crystal Violet, Leuco Malachite Green, Malachite green in Marine /Aqua culture Food Products - Crustaceans (Shrimp, Prawn & their products), Fish & Fish products by LCMS/MS	LAB_P_SOP_148:2023
		Determination of Nitroimidazole and other pharmacologically Active substance: Metronidazole-OH, HydroxyDimetronidazole (Hmni), Ronidazole, Metronidazole, Dimetronidazole, Dapsone, Clenbuterol, Carbadox, Ipronidazole-OH, Ipronidazole, Sulfamethoxazole, Colchicine, Aristolochic	VTZ_LAB_SOP_013:2021
	Marine / Aqua Culture Food Products -		

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Chemical Residues:
Food
(cont'd.)

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Chemical Residues: Food (cont'd.)	Crustaceans (Shrimp, Prawn & their products), Fish & Fish products (cont'd.)	Coumaphos, Cypermethrin, Deltamethrin, Diazinon, Dichlorvos, Dicrotophos (Bidrin), Dimethoate, Diuron, Fenitrothion, Fenthion, Fenthion Sulfone, Fenvalerate, Formothion, Isodrin, Malaoxon, Malathion, Methomyl, Methyl Parathion, Mirex, Monocrotophos, Paraoxon-methyl, Parathion, Perthane, Phorate, Phorate Sulfone, Phorate-sulfoxide, Phosalone, Phosphomidon, Pyrethrins, Quinalphos, Simazine, Toxaphene, Fluridone, Endosulfan α , Endosulfan- β , Endosulfan-Sulfate, Ethion in Marine / Aqua culture Food Products -Crustaceans (Shrimp,Prawn & their products), Squids, Cuttle Fish, Fish &Fish products by LCMS/MS and GCMS/MS	
	Marine / Aqua Culture Food Products - Crustaceans	Determination of Poly Aromatic Hydrocarbons PAH's: Naphthalene, Acenaphthylene, Acenaphthene, Fluorene, Anthracene, Phenanthrene, Pyrene, Benz (a) anthracene, Chrysene, Benzo (b) fluoranthene, Benzo (j) fluoranthene, Benzo (k) fluoranthene, Benzo (a) pyrene, Benzo (e) pyrene, Benzo (g,h,i) perylene, Dibenzo (a, h) anthracene, Indeno (1,2,3-cd) pyrene, Fluoranthene in Marine / Aqua culture Food Products - Crustaceans (Shrimp,Prawn & their products), Squids, Cuttle	VTZ _LAB _SOP _014:2021

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
	(Shrimp, Prawn & their products), Fish & Fish products (cont'd.)	Fish, Fish & Fish product by GCMS/MS Determination of Polychlorinated biphenyls PCB's: 2,4,4-Trichlorobiphenyl (PCB 28), 2,2,5,5-Tetrachlorobiphenyl (PCB 52), 2,2,4,5,5-Pentachlorobiphenyl (PCB 101), 2,2,3,4,4,5-Hexachlorobiphenyl (PCB 138), 2,2,4,4,5,5-Hexachlorobiphenyl (PCB 153), 2,2,3,4,4,5,5-Heptachlorobiphenyl (PCB 180) in Marine / Aqua culture Food Products - Crustaceans (Shrimp, Prawn & their products), Squids, Cuttle Fish, Fish & Fish product by GCMS/MS	VTZ_LAB_SOP_014:2021
Chemical Residues: Water	Water (Drinking Water/Packaged Drinking Water/Mineral Water/Process Water)	Determination of Pesticides Residues: Alpha – HCH, Beta – HCH, Gamma - HCH (Lindane), Delta – HCH o,p DDD, p,p DDD, o,p DDT, p,p DDT, o,p DDE, p,p DDE, Endosulfan α, Endosulfan-β, Endosulfan-Sulfate, Monocrotophos, Ethion, Chlorpyrifos, Phorate, Phorate Sulfoxide, Phorate Sulfone, 2, 4-D, Butachlor, Isoproturon, Alachlor, Atrazine, Methyl parathion, Methyl paraxon, Malathion, Malaoxon, Aldrin, Dieldrin, Endrin, HCB, Heptachlor, Heptachlor epoxide, Simazine, Parathion, Captafol, Carbaryl, Chlordecone, Coumaphos, Cypermethrin, Deltamethrin, Diazinon, Dicrotophos, Dimethoate,	VTZ_LAB_SOP_015:2021
Chemical Residues: Water	Water (Drinking Water/Packaged		

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(cont'd.)	Drinking Water/Mineral Water/Process Water) (cont'd.)	Diuron, Fenvalerate, Fluridone, Isodrin, Mirex, Pendimethalin, Perthane, Phosalone, Phosphomidon, Pyrethrins, Quinalphos, Toxaphene, Trifluralin, Cis-Chlordane, Trans-Chlordane in Water (Drinking water/Packaged drinking water/Mineral water/Process water) by LCMS/MS and GCMS/MS	
		Determination of Poly Aromatic Hydrocarbons: Benzo(a)pyrene, Benzo (b) fluoranthene, Benzo (g,h,i) perylene, Benzo (k) fluoranthene, Indeno(1,2,3-cd) pyrene in Water (Drinking water/Packaged drinking water/Mineral water/Process water) GCMS/MS	VTZ_LAB_SOP_015:2021
Chemical Residues: Water (cont'd.)	Water (Drinking Water/Packaged	Determination of Polychlorinated biphenyls: 2,4,4-Trichlorobiphenyl (PCB 28), 2,2,5,5-Tetrachlorobiphenyl (PCB 52), 2,2,4,5,5-Pentachlorobiphenyl (PCB 101), 2,2,3,4,4,5-Hexachlorobiphenyl (PCB138), 2,2,4,4,5,5-Hexachlorobiphenyl (PCB153), 2,2,3,4,4,5,5-Heptachlorobiphenyl (PCB 180) in Water (Drinking water/Packageddrinking water/Mineral water/Process water) by GCMS/MS	VTZ_LAB_SOP_015:2021

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	Drinking Water/Mineral Water/Process Water) (cont'd.)	Determination of Acrylamide in Water (Drinking water/Packaged drinking water/Mineral water/Process water) by LCMS/MS	LAB_P_SOP_279:2022
		Determination of volatile organic compounds (VOCs): Benzene, Epichlorohydrin, 1, 2 – dichloroethane, Tetrachloroethene, Chloroform, Bromoform, Dibromochloromethane, Bromodichloromethane, Trichloroethene, Vinyl Chloride	LAB_P_SOP_280:2022
Chemical Residues: Animal Food & Feeds	Animal Food and Feed Products	Determination of Chloramphenicol in Animal food and feed products by LCMS/MS	VTZ_LAB_SOP_018:2023
		Determination of Nitrofurans Metabolites: 1-aminohydantoin (AHD), 3-amino-5-morpholinomethyl-2-oxazolidinone (AMTZ), 3-amino-2-oxazolidinone (AOZ), semi carbazide (SEM), 3,5 dinitro salicylic Acid Hydrazide (DNSH) in animal food and feed products by LCMS/MS	VTZ_LAB_SOP_019:2023
		Determination of Nitrofurans parent: Nitrofurazone, Nitrofurantoin, Furaltidone, Furazolidone, Nifursol in animal food and feed products by LCMS/MS	VTZ_LAB_SOP_020:2023
		Determination of Tetracyclines: Tetracycline (expressed as sum of Tetracycline and it's 4-epimer), Oxytetracycline (expressed as sum of Oxytetracycline and it's 4-epimer), Chlortetracycline	VTZ_LAB_SOP_021:2023
Chemical Residues: Animal Food & Feeds	Animal Food and Feed Products		

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
(cont'd.)	(cont'd.)	(expressed as sum of Chlortetracycline and its 4-epimer) & Doxycycline in animal food and feed products by LCMS/MS	
		Determination of Quinolones & Fluoroquinolones: Oxolinic Acid, Sarafloxacin, Flumequine, Danofloxacin, Difloxacin, Enrofloxacin (Sum of Enrofloxacin and Ciprofloxacin), Nalidixic acid, Norfloxacin, Ofloxacin in Animal food and feed products by LCMS/MS	VTZ_LAB_SOP_021:2023
		Determination of Sulphonamides: Sulfachloropyridazine, Sulfamethoxypyridazine, Sulfadimethoxine, Sulfamethizole, Sulfamethoxazole, Sulfadiazine, Sulfamethazine, Sulfamerazine, Sulfathiazole, Sulfapyridine, Sulfadoxine, Sulfisoxazole, Sulfamethoxazole, Trimethoprim, in animal food and feed products by LCMS/MS	VTZ_LAB_SOP_021:2023
		Determination of Pesticides Residues: Alpha – HCH, Beta – HCH, Gamma - HCH(Lindane), Delta – HCH, Aldrin, Dieldrin, Endrin, o, p DDT, p, p DDT, o, p DDE, p,p DDE, o,p DDD, p,p DDD, Heptachlor, Heptachlor epoxide, Trans-Chlordane, Cis-Chlordane, Hexachlorobenzene, Pendimethalin, Trifluralin, Ethoxyquin, Ethoxyquin Dimer, Alachlor, Atrazine,	VTZ_LAB_SOP_022:2023
Chemical Residues: Animal Food & Feeds	Animal Food and Feed Products		

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(cont'd.)	(cont'd.)	Butachlor, Captafol, Carbaryl, Chlordecone, Chlorpyrifos, Coumaphos, Cypermethrin, Deltamethrin, Diazinon, Dichlorvos, Dimethoate, Fenitrothion, Fenvalerate, Formothion, Isodrin, Malathion, Methyl Parathion, Mirex, Methyl paraoxon, Parathion, Perthane, Phorate, Phorate Sulfone, Phorate-sulfoxide, Phosalone, Quinalphos, 2,4-D, Toxaphene, Endosulfan α , Endosulfan- β , Endosulfan-Sulfate, Ethion in animal food and feed products by LCMS/MS and GCMS/MS	
		Determination of Polychlorinated biphenyls PCB's: 2,4,4-Trichlorobiphenyl (PCB 28), 2,2,5,5-Tetrachlorobiphenyl (PCB 52), 2,2,4,5,5-Pentachlorobiphenyl (PCB 101), 2,2,3,4,4,5-Hexachlorobiphenyl (PCB 138), 2,2,4,4,5,5-Hexachlorobiphenyl (PCB 153), 2,2,3,4,4,5,5-Heptachlorobiphenyl (PCB 180) in animal food and feed products by GCMS/MS	VTZ_LAB_SOP_022:2023
		Determination of Melamine in animal food and feed products by LCMS/MS	VTZ_LAB_SOP_023:2023
		Determination of Aflatoxins (G2, G1, B2, B1) in animal food and feed products by UPLC FLD	VTZ_LAB_SOP_026:2023

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