

<b>Laboratory</b>	<b>SEALAB, 13/99A, Keltron Road, Aroor, Kerala</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Biological Testing</b>	<b>Issue Date</b>	<b>18.10.2015</b>
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<b>S. No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
<b>I. FOOD &amp; AGRICULTURAL PRODUCTS</b>				
<b>1.</b>	<b>Fish and Marine Products (Fresh, Frozen, Dried, Pre-Cooked and Chilled)</b>	Aerobic Plate Count	FDA BAM, Chapter 3, 2001 (Pour plate method)	≥10 cfu/g
		Total Plate Count at 30 <sup>0</sup> C	IS 5402: 2012; IS 4833-1: 2013	≥10 cfu/g
		Enumeration of Yeast And Mould	FDA BAM, Chapter 18, 2001 (Spread plate method)	≥10 cfu/g
		Total Coliform Count	USFDA BAM Chapter 4 (I), (8 <sup>th</sup> Edition): 2013	≥10 cfu/g
		Total Coliform	USFDA BAM Chapter 4 (I), (8 <sup>th</sup> Edition): 2013	(≥ 0.3 to >110) MPN/g (≥0.9 to >2300) MPN/ g
		Escherichia Coli	FDA BAM, Chapter 4 (I), (8 <sup>th</sup> Edition): 2013, IS 5887 (Part 1): 1976	≥10 cfu/g
		Escherichia Coli	FDA BAM, Chapter 4 (I), (8 <sup>th</sup> Edition): 2013, IS 5887 (Part 1): 1976	(≥ 0.3 to >110) MPN/g (≥ 0.9 to >2300) MPN/g (≥ 0.3 to >110) MPN/g
		Thermotolerant Coliforms / Faecal Coliforms	FDA BAM, Chapter 4 (I): 2013	(≥ 0.3 to >110) MPN/g (≥0.9 to >2300) MPN/ g
		Staphylococcus Aureus	FDA BAM, Chapter 12, 2001	≥10 cfu/g
		Enterobacteriaceae	ISO 21528-2: 2004	≥10 cfu/g
Enterobacteriaceae	ISO 21528-1: 2004	(≥ 0.3 to >110) MPN/g		

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	<b>Fish and Marine Products (Fresh, Frozen, Dried, Pre-Cooked and Chilled)</b>	Faecal Streptococci	IS 5887 (Part 2): 1976	≥10 cfu/g
		Faecal Streptococci		(≥ 0.3 to >110) MPN/g
		Salmonella Spp	FDA BAM, Chapter 5, 2014	Qualitative (Presence/ Absence)/25 g
		Clostridium Perfringens (Anaerobic Sulphite Reducing Bacteria)	FDA BAM, Chapter 16, 2001	≥10 cfu/g
		Shigella	FDA BAM, Chapter 6, 2013	Qualitative (Presence/ Absence)/25 g
		Vibrio Cholerae	FDA BAM, Chapter 9, 2004	Qualitative (Presence/ Absence)/25 g
		Vibrio Parahaemolyticus	FDA BAM, Chapter 9, 2004	Qualitative (Presence/ Absence)/25 g
				(≥ 0.3 to >110) MPN/g
		Vibrio Vulnificus	FDA BAM, Chapter 9, 2004	Qualitative (Presence/ Absence)/25 g
	Listeria Monocytogenes	FDA BAM, Chapter 10, 2013	Qualitative (Presence/ Absence)/25 g	
	Bacillus Cereus	FDA BAM, Chapter 14, 2001	≥ 10 cfu/g	
<b>2.</b>	<b>Canned Foods</b>	Commercial Sterility	USFDA BAM (8 <sup>th</sup> Edition): 2001, Chapter 21A Chapter 61, Microbiological Examination of foods, APHA (4 <sup>th</sup> Edition): 2001	Qualitative (Commercial sterile/Non-sterile Presence/Absence of microbial growth)

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3.	Salt	Staphylococcus Aureus	FDA BAM, Chapter 12, 2001	≥ 10 cfu/g
		Clostridium Perfringens (Anaerobic Sulphite Reducing Bacteria)	FDA BAM, Chapter 16, 2001	≥10 cfu/g
4.	Egg & Egg Products	Aerobic Plate Count	USFDA BAM, Chapter 3, (8 <sup>th</sup> Edition): 2001	≥10 cfu/g
		Yeast and Moulds	USFDA BAM, Chapter 18, (8 <sup>th</sup> Edition): 2001	≥10 cfu/g
		Coliform Count	USFDA BAM Chapter 4 (I), (8 <sup>th</sup> Edition): 2013	≥10 cfu/g
				(≥ 0.3 to >110) MPN/g (≥ 0.9 to >2300) MPN/g
		Faecal Coliforms / Thermotolerant Coliforms	USFDA BAM Chapter 4 (I), (8 <sup>th</sup> Edition): 2013	(≥ 0.3 to >110) MPN/g (≥ 0.9 to >2300) MPN/g
		E.Coli Count	USFDA BAM Chapter 4 (I), (8 <sup>th</sup> Edition): 2013	≥ 10 cfu/g
		E.Coli MPN	USFDA BAM Chapter 4 (I), (8 <sup>th</sup> Edition): 2013	(≥ 0.3 to >110) MPN/g (≥ 0.9 to >2300) MPN/g
		Staphylococcus Aureus	USFDA BAM Chapter 12, (8 <sup>th</sup> Edition): 2001	≥10 cfu/g
		Salmonella	USFDA BAM Chapter 5, (8 <sup>th</sup> Edition): 2014	Qualitative (Presence/ Absent)/25 g
Shigella	USFDA BAM Chapter 6, (8 <sup>th</sup> Edition): 2013	Qualitative (Presence/ Absent)/25 g		

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	<b>Egg &amp; Egg Products</b>	V. Cholerae	USFDA BAM , Chapter 9, (8 <sup>th</sup> Edition): 2004	Qualitative (Presence/ Absent)/25 g
		Listeria Monocytogenes	USFDA BAM Chapter 10, (8 <sup>th</sup> Edition): 2013	Qualitative (Presence/ Absent)/25 g
		Clostridium Perfringens (Anaerobic Sulphite Reducing Bacteria)	USFDA BAM Chapter 16, (8 <sup>th</sup> Edition): 2001	≥10 cfu/g
		Enterobacteriaceae	ISO 21528-2: 2004	≥10 cfu/g
			ISO 21528-1: 2004	(≥ 0.3 to >110) MPN/g
	Faecal Streptococci	IS 5887 (Part 2): 1976	≥ 10 cfu/g (≥ 0.3 to >110) MPN/g	
<b>5.</b>	<b>Milk &amp; Dairy Products</b>	Aerobic Plate Count	USFDA BAM, Chapter 3, (8 <sup>th</sup> Edition): 2001	≥ 10 cfu/g or ml
		Yeast and Mould	USFDA BAM, Chapter 18, (8 <sup>th</sup> Edition): 2001	≥ 10 cfu/g or ml
		Coliform Count	USFDA BAM Chapter 4 (I), (8 <sup>th</sup> Edition): 2013	≥ 10 cfu/g or ml
		Coliform MPN	USFDA BAM Chapter 4 (I), (8 <sup>th</sup> Edition): 2013	(≥ 0.3 to >110) MPN/g or ml ≤ 0.9 to >2300 MPN/ g or ml
		Faecal Coliforms / Thermotolerant Coliforms	USFDA BAM Chapter 4 (I), (8 <sup>th</sup> Edition): 2013	(≥ 0.3 to >110) MPN/g or ml (≥ 0.9 to >2300) MPN/g or ml

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	<b>Milk &amp; Dairy Products</b>	Enterobacteriaceae Count	ISO 21528-2: 2004	≥ 10 cfu/g
		Enterobacteriaceae MPN	ISO 21528-1: 2004	(≥ 0.3 to >110) MPN/g
		Faecal Streptococci (Count & MPN)	IS 5887 (Part 2): 1976	≤10 cfu/g (≥ 0.3 to >110) MPN/g
		E.Coli Count	USFDA BAM Chapter 4 (I), (8 <sup>th</sup> Edition): 2013	≥ 10 cfu/g or ml
		E.Coli MPN	USFDA BAM Chapter 4 (I), (8 <sup>th</sup> Edition): 2013	(≥ 0.3 to >110) MPN/g or ml (≥ 0.9 to >2300) MPN/g or ml
		Staphylococcus Aureus	USFDA BAM Chapter 12, (8 <sup>th</sup> Edition): 2001	≥ 10 cfu/g or ml
		Salmonella	USFDA BAM Chapter 5, (8 <sup>th</sup> Edition): 2014	Qualitative (Present/Absent)/25 g or ml
		Enterococci (Faecal Streptococci) Count	IS 5887 (Part 2): 1976	≥ 10 cfu/g or ml
		Enterococci (Faecal Streptococci) MPN	IS 5887 (Part 2): 1976	(≥ 0.3 to >110 MPN)/100 g or ml
		Listeria Monocytogenes	USFDA BAM Chapter 10, (8 <sup>th</sup> Edition): 2013	Qualitative (Presence/ Absent)/25 g or ml
<b>6.</b>	<b>Meat &amp; Meat Products</b>	Aerobic Plate Count	USFDA BAM, Chapter 3, (8 <sup>th</sup> Edition): 2001	≥ 10 cfu/g

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	<b>Meat &amp; Meat Products</b>	Coliforms Count	USFDA BAM Chapter 4 (I), (8 <sup>th</sup> Edition): 2013	≥ 10 cfu/g
		Coliforms MPN	USFDA BAM Chapter 4 (I), (8 <sup>th</sup> Edition): 2013	(≥ 0.3 to >110) MPN/g ≥ 0.9->2300 MPN/g
		Faecal Coliforms / Thermotolerant Coliforms	USFDA BAM Chapter 4 (I), (8 <sup>th</sup> Edition): 2013	(≥ 3 to >1660) MPN/g (≤ 0.9 to >2300) MPN/g
		E.Coli Count	USFDA BAM Chapter 4 (I), (8 <sup>th</sup> Edition): 2013	≥ 10 cfu/g
		E.Coli MPN	USFDA BAM Chapter 4 (I), (8 <sup>th</sup> Edition): 2013	(≥ 0.3 to >110) MPN/g (≥ 0.9 to >2300) MPN/g
		Faecal Streptococci /Enterococci Count	IS 5887 (Part 2): 1976	≥ 10 cfu/g
		Faecal Streptococci /Enterococci MPN	IS 5887 (Part 2): 1976	(≥ 0.3 to >110) MPN/g
		Staphylococcus Aureus	USFDA BAM Chapter 12, (8 <sup>th</sup> Edition): 2001	≥ 10 cfu/g
		Salmonella	USFDA BAM Chapter 5, (8 <sup>th</sup> Edition): 2014	Qualitative (Presence/ Absent)/25 g
		Listeria Monocytogenes	USFDA BAM Chapter 10, (8 <sup>th</sup> Edition): 2013	Qualitative (Presence/ Absent)/25 g
		Clostridium Perfringens (Anaerobic Sulphite Reducing Bacteria)	USFDA BAM Chapter 16, (8 <sup>th</sup> Edition): 2001	≥ 10 cfu/g

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7.	<b>Nuts and Nut Products</b>	Aerobic Plate Count	USFDA BAM, Chapter 3, (8 <sup>th</sup> Edition): 2001	≥ 10 cfu/g
		Yeast & Mould	USFDA, Chapter 18, BAM, (8 <sup>th</sup> Edition): 2001	≥ 10 cfu/g
		Coliforms Count	USFDA BAM Chapter 4 (I), (8 <sup>th</sup> Edition): 2013	≥ 10 cfu/g
		Coliforms MPN	USFDA BAM Chapter 4 (I), (8 <sup>th</sup> Edition): 2013	(≥ 0.3 to >110) MPN/g (≥ 0.9 to >2300) MPN/g
		Faecal Coliforms / Thermotolerant Coliforms	USFDA BAM Chapter 4 (I), (8 <sup>th</sup> Edition): 2013	(≥ 0.3 to >110) MPN/g (≥ 0.9 to >2300) MPN/g
		E.Coli Count	USFDA BAM Chapter 4 (I), (8 <sup>th</sup> Edition): 2013	≥ 10 cfu/g
		E.Coli MPN	USFDA BAM Chapter 4 (I), (8 <sup>th</sup> Edition): 2013	(≥ 0.3 to >110) MPN/g (≥ 0.9 to >2300) MPN/g
		Staphylococcus Aureus	USFDA BAM Chapter 12, (8 <sup>th</sup> Edition): 2001	≥ 10 cfu/g
		Salmonella	USFDA BAM Chapter 5, (8 <sup>th</sup> Edition): 2014	Qualitative (Presence/ Absent)/25 g
		Faecal Streptococci /Enterococci Count	IS 5887 (Part 2): 1976	≥ 10 cfu/g
		Faecal Streptococci /Enterococci MPN	IS 5887 (Part 2): 1976	(≥ 0.3 to >110) MPN/g
	Clostridium Perfringenes (Anaerobic Sulphite Reducing Bacteria)	USFDA BAM (8 <sup>th</sup> Edition): 2001	≥ 10 cfu/g	

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<b>8.</b>	<b>Herbs, Spices and Condiments</b>	Aerobic Plate Count	USFDA BAM, Chapter 3, (8 <sup>th</sup> Edition): 2001	≥ 10 cfu/g
		Yeast & Moulds	USFDA BAM, Chapter 18, (8 <sup>th</sup> Edition): 2001	≥ 10 cfu/g
		Coliforms Count	USFDA BAM Chapter 4 (I), (8 <sup>th</sup> Edition): 2013	≥ 10 cfu/g
		Coliforms MPN	USFDA BAM Chapter 4 (I), (8 <sup>th</sup> Edition): 2013	(≥ 0.3 to >110) MPN/g (≥ 0.9 to >2300) MPN/g
		Faecal Coliforms / Thermotolerant Coliforms	USFDA BAM Chapter 4 (I), (8 <sup>th</sup> Edition): 2013	(≥ 3 to >1660) MPN/g (≥ 0.9 to >2300) MPN/g
		E.Coli Count	USFDA BAM Chapter 4 (I), (8 <sup>th</sup> Edition): 2013	≥ 10 cfu/g
		E.Coli MPN	USFDA BAM Chapter 4 (I), (8 <sup>th</sup> Edition): 2013	(≥ 3 to >1660) MPN/g (≥ 0.9 to >2300) MPN/g
		Staphylococcus Aureus	USFDA BAM Chapter 12, (8 <sup>th</sup> Edition): 2001	≥ 10 cfu/g
		Salmonella	USFDA BAM Chapter 5, (8 <sup>th</sup> Edition): 2014	Qualitative (Presence/ Absent)/25 g
		Faecal Streptococci /Enterococci Count	IS 5887 (Part 2): 1976	≥ 10 cfu/g
		Faecal Streptococci /Enterococci MPN	IS 5887 (Part 2): 1976	(≥ 0.3 to >110) MPN/g
Clostridium Perfringens (Anaerobic Sulphite Reducing Bacteria)	USFDA BAM Chapter 16, (8 <sup>th</sup> Edition): 2001	≥ 10 cfu/g		



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	<b>Herbs, Spices and Condiments</b>	Shigella	USFDA BAM Chapter 6, (8 <sup>th</sup> Edition): 2013	Qualitative (Presence/ Absent)/25 g
		Bacillus Cereus	FDA BAM, Chapter 14, 2001	≥ 10 cfu/g
		Listeria Monocytogenes	USFDA BAM Chapter 10, (8 <sup>th</sup> Edition) 2013	Qualitative (Presence/ Absent)/25 g
<b>9.</b>	<b>Fruits and Vegetables / Fruits and Vegetable Products</b>	Aerobic Plate Count	USFDA BAM, Chapter 3, (8 <sup>th</sup> Edition): 2001	≥ 10 cfu/g
		Yeast & Moulds	USFDA BAM, Chapter 18, (8 <sup>th</sup> Edition): 2001	≥ 10 cfu/g
		Coliform Count	USFDA BAM Chapter 4 (I), (8 <sup>th</sup> Edition): 2013	≥ 10 cfu/g
		Coliforms MPN	USFDA BAM Chapter 4 (I), (8 <sup>th</sup> Edition): 2013	(≥ 0.3 to >110) MPN/g (≥ 0.9 to >2300) MPN/g
		Faecal Coliforms / Thermotolerant Coliforms	USFDA BAM Chapter 4 (I), (8 <sup>th</sup> Edition): 2013	(≥ 3 to >1660) MPN/g (≥ 0.9 to >2300) MPN/g
		E.Coli Count	USFDA BAM Chapter 4 (I), (8 <sup>th</sup> Edition): 2013	≥ 10 cfu/g
		E.Coli MPN	USFDA BAM Chapter 4 (I), (8 <sup>th</sup> Edition): 2013	(≥ 3 to >1660) MPN/g (≥ 0.9 to >2300) MPN/g
		Staphylococcus Aureus	USFDA BAM Chapter 12, (8 <sup>th</sup> Edition): 2001	≥ 10 cfu/g
		Salmonella	USFDA BAM Chapter 5, (8 <sup>th</sup> Edition): 2014	Qualitative (Presence/ Absent)/25 g

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	<b>Fruits and Vegetables / Fruits and Vegetable Products</b>	Faecal Streptococci /Enterococci Count	IS 5887 (Part 2): 1976	≥ 10 cfu/g
		Faecal Streptococci /Enterococci MPN	IS 5887 (Part 2): 1976	(≥ 0.3 to >110) MPN/g
		Clostridium Perfringens (Anaerobic Sulphite Reducing Bacteria)	USFDA BAM Chapter 16, (8 <sup>th</sup> Edition): 2001	≥ 10 cfu/g
		Shigella	USFDA BAM Chapter 6, (8 <sup>th</sup> Edition): 2013	Qualitative (Presence/ Absent)/25 g
		Vibrio Cholerae	USFDA BAM Chapter 9, (8 <sup>th</sup> Edition): 2004	Qualitative (Presence/ Absent)/25 g
		Flat Sour Organisms (Spore Formers)	Chapter 25 of Microbiological Examination of food, (APHA (4 <sup>th</sup> Edition): 2001	≥ 10 cfu/g
<b>10.</b>	<b>Cereals, Pulses and Cereal Products</b>	Aerobic Plate Count	USFDA BAM, Chapter 3, (8 <sup>th</sup> Edition): 2001	≥ 10 cfu/g
		Yeast & Moulds	USFDA BAM, Chapter 18, (8 <sup>th</sup> Edition): 2001	≥ 10 cfu/g
		Coliforms Count	USFDA BAM Chapter 4 (I), (8 <sup>th</sup> Edition): 2013	≥ 10 cfu/g
		Coliforms MPN	USFDA BAM Chapter 4 (I), (8 <sup>th</sup> Edition): 2013	(≥ 0.3 to >110) MPN/g (≥ 0.9 to >2300) MPN/g
		Faecal Coliforms / Thermotolerant Coliforms	USFDA BAM Chapter 4 (I), (8 <sup>th</sup> Edition): 2013	(≥ 3 to >1660) MPN/g (≥ 0.9 to >2300) MPN/g

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	<b>Cereals, Pulses and Cereal Products</b>	E.Coli Count	USFDA BAM Chapter 4 (I), (8 <sup>th</sup> Edition): 2013	≥ 10 cfu/g
		E.Coli MPN	USFDA BAM Chapter 4 (I), (8 <sup>th</sup> Edition): 2013	(≥ 3 to >1660) MPN/g (≥ 0.9 to >2300) MPN/g
		Staphylococcus Aureus	USFDA BAM Chapter 12, (8 <sup>th</sup> Edition): 2001	≥ 10 cfu/g
		Salmonella	USFDA BAM Chapter 5, (8 <sup>th</sup> Edition): 2014	Qualitative (Presence/ Absent)/25 g
		Faecal Streptococci/ Enterococci Count	IS 5887 (Part 2): 1976	(≥ 0.3 to >110) MPN/g 10 cfu/g to 10 <sup>3</sup> cfu/g
		Faecal Streptococci /Enterococci MPN	IS 5887 (Part 2): 1976	(≥ 0.3 to >110) MPN/g
		Clostridium Perfringens (Anaerobic Sulphite Reducing Bacteria)	USFDA BAM Chapter 16, (8 <sup>th</sup> Edition): 2001	≥ 10 cfu/g
		Shigella	USFDA BAM Chapter 6, (8 <sup>th</sup> Edition): 2013	Qualitative (Presence/ Absent)/25 g
		Vibrio Cholerae	USFDA BAM Chapter 9, (8 <sup>th</sup> Edition): 2004	Qualitative (Presence/ Absent)/25 g
		V.ParaHaemolyticus	USFDA BAM Chapter 9, (8 <sup>th</sup> Edition): 2004	Qualitative (Presence/ Absent)/25 g

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<b>S. No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
<b>11.</b>	<b>Bakery, Sweets &amp; Confectionaries</b>	Aerobic Plate Count	USFDA BAM, Chapter 3, (8 <sup>th</sup> Edition): 2001	≥10 cfu/g
		Yeast & Moulds	USFDA BAM, Chapter 18, (8 <sup>th</sup> Edition): 2001	≥ 10 cfu/g
		Coliforms Count	USFDA BAM Chapter 4 (I), (8 <sup>th</sup> Edition): 2013	≥ 10 cfu/g
		Coliforms MPN	USFDA BAM Chapter 4 (I), (8 <sup>th</sup> Edition): 2013	(≥ 0.3 to >110) MPN/g (≥ 0.9 to >2300) MPN/g
		Faecal Coliforms / Thermotolerant Coliforms	USFDA BAM Chapter 4 (I), (8 <sup>th</sup> Edition): 2013	≤3 to >1660 MPN/g (≥ 0.9 to >2300) MPN/g
		E.Coli Count	USFDA BAM Chapter 4 (I), (8 <sup>th</sup> Edition): 2013	≥ 10 cfu/g
		E.Coli MPN	USFDA BAM Chapter 4 (I), (8 <sup>th</sup> Edition): 2013	(≥ 3 to >1660) MPN/g (≥ 0.9 to >2300) MPN/g
		Staphylococcus Aureus	USFDA BAM Chapter 12, (8 <sup>th</sup> Edition): 2001	≥ 10 cfu/g
		Salmonella	USFDA BAM Chapter 5, (8 <sup>th</sup> Edition): 2014	Qualitative (Presence/ Absent)/25 g
		Faecal Streptococci/ Enterococci Count	IS 5887 (Part 2): 1976	≥ 10 cfu/g
Faecal Streptococci /Enterococci MPN	IS 5887 (Part 2): 1976	(≥ 0.3 to >110) MPN/g		

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<b>S. No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
<b>12.</b>	<b>Non Alcoholic Beverages Tea &amp; Tea Products</b>	Aerobic Plate Count	USFDA BAM, Chapter 3, (8 <sup>th</sup> Edition): 2001	≥ 10 cfu/g
		Yeast & Moulds	USFDA BAM, Chapter 18, (8 <sup>th</sup> Edition): 2001	≥ 10 cfu/g
		Coliforms Count	USFDA BAM Chapter 4 (I), (8 <sup>th</sup> Edition): 2013	≥ 10 cfu/g
		Coliforms MPN	USFDA BAM Chapter 4 (I), (8 <sup>th</sup> Edition): 2013	(≥ 3 to >1100) MPN/g (≥ 0.9 to >2300) MPN/g
		Faecal Coliforms / Thermotolerant Coliforms	USFDA BAM Chapter 4 (I), (8 <sup>th</sup> Edition): 2013	(≥ 3 to >1660) MPN/g (≥ 0.9 to >2300) MPN/g
		E.Coli Count	USFDA BAM Chapter 4 (I), (8 <sup>th</sup> Edition): 2013	≥ 10 cfu/g
		E.Coli MPN	USFDA BAM Chapter 4 (I), (8 <sup>th</sup> Edition): 2013	(≥ 3 to >1660) MPN/g (≥ 0.9 to >2300) MPN/g
		Staphylococcus Aureus	USFDA BAM Chapter 12, (8 <sup>th</sup> Edition): 2001	≥ 10 cfu/g
		Salmonella	USFDA BAM Chapter 5, (8 <sup>th</sup> Edition): 2014	Qualitative (Presence/ Absent)/25 g
		Faecal Streptococci/ Enterococci Count	IS 5887 (Part 2): 1976	≥ 10 cfu/g
Faecal Streptococci/ Enterococci MPN	IS 5887 (Part 2): 1976	(≥ 0.3 to >110) MPN/g		
Clostridium Perfringens (Anaerobic Sulphite Reducing Bacteria)	USFDA BAM Chapter 16, (8 <sup>th</sup> Edition): 2001	≥ 10 cfu/g		

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<b>S. No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
	<b>Non Alcoholic Beverages Tea &amp; Tea Products</b>	Listeria Monocytogenes	USFDA BAM Chapter 10, (8 <sup>th</sup> Edition): 2013	Qualitative (Presence/ Absent)/25 g
<b>13.</b>	<b>Coffee and Cocoa Powder</b>	Aerobic Plate Count	USFDA BAM, Chapter 3, (8 <sup>th</sup> Edition): 2001	≥ 10 cfu/g
		Yeast & Moulds	USFDA BAM, Chapter 18, (8 <sup>th</sup> Edition): 2001	≥ 10 cfu/g
		Coliforms Count	USFDA BAM Chapter 4 (I), (8 <sup>th</sup> Edition): 2013	≥ 10 cfu/g
		Coliforms MPN	USFDA BAM Chapter 4 (I), (8 <sup>th</sup> Edition): 2013	(≥ 3 to >1100) MPN/g (≥ 0.9 to >2300) MPN/g
		Faecal Coliforms / Thermotolerant Coliforms	USFDA BAM Chapter 4 (I), (8 <sup>th</sup> Edition): 2013	(≥ 3 to >1660) MPN/g (≥ 0.9 to >2300) MPN/g
		E.Coli Count	USFDA BAM Chapter 4 (I), (8 <sup>th</sup> Edition): 2013	≥ 10 cfu/g
		E.Coli MPN	USFDA BAM Chapter 4 (I), (8 <sup>th</sup> Edition): 2013	(≥ 3 to >1660) MPN/g (≥ 0.9 to >2300) MPN/g
		Staphylococcus Aureus	USFDA BAM Chapter 12, (8 <sup>th</sup> Edition): 2001	≥ 10 cfu/g
		Salmonella	USFDA BAM Chapter 5, (8 <sup>th</sup> Edition): 2014	Qualitative (Presence/ Absent)/25 g
		Faecal Streptococci/ Enterococci Count	IS 5887 (Part 2): 1976	≥ 10 cfu/g

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<b>S. No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
	<b>Coffee and Cocoa Powder</b>	Faecal Streptococci / Enterococci MPN	IS 5887 (Part 2): 1976	( $\geq 0.3$ to $>110$ ) MPN/g
		Clostridium Perfringens (Anaerobic Sulphite Reducing Bacteria)	USFDA BAM Chapter 16, (8 <sup>th</sup> Edition): 2001	$\geq 10$ cfu/g or ml
		L.Monocytogenes	USFDA BAM Chapter 10, (8 <sup>th</sup> Edition): 2013	Qualitative (Presence/ Absent)/25 g
<b>14.</b>	<b>Canned and Processed Food</b>	Aerobic Plate Count	USFDA BAM, Chapter 3, (8 <sup>th</sup> Edition): 2001	$\geq 10$ cfu/g
		Yeast & Moulds	USFDA BAM, Chapter 18, (8 <sup>th</sup> Edition): 2001	$\geq 10$ cfu/g
		Coliforms Count	USFDA BAM Chapter 4 (I), (8 <sup>th</sup> Edition): 2013	$\geq 10$ cfu/g
		Coliforms MPN	USFDA BAM Chapter 4 (I), (8 <sup>th</sup> Edition): 2013	( $\geq 0.3$ to $>110$ ) MPN/g ( $\geq 0.9$ to $>2300$ ) MPN/g
		Faecal Coliforms / Thermotolerant Coliforms	USFDA BAM Chapter 4 (I), (8 <sup>th</sup> Edition): 2013	$\geq 3$ to $>1660$ MPN/g ( $\geq 0.9$ to $>2300$ ) MPN/g
		E.Coli Count	USFDA BAM Chapter 4 (I), (8 <sup>th</sup> Edition): 2013	$\geq 10$ cfu/g
		E.Coli MPN	USFDA BAM Chapter 4 (I), (8 <sup>th</sup> Edition): 2013	( $\geq 3$ to $>1660$ ) MPN/g ( $\geq 0.9$ to $>2300$ ) MPN/g
		Staphylococcus Aureus	USFDA BAM Chapter 12, (8 <sup>th</sup> Edition): 2001	$\geq 10$ cfu/g
	Salmonella	USFDA BAM Chapter 5, (8 <sup>th</sup> Edition): 2014	Qualitative (Presence/ Absent)/25 g	

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<b>S. No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
	<b>Canned and Processed Food</b>	Faecal Streptococci /Enterococci Count	IS 5887 (Part 2): 1976	≥ 10 cfu/g
		Faecal Streptococci/ Enterococci MPN	IS 5887 (Part 2): 1976	(≥ 0.3 to >110) MPN/g
		Clostridium Perfringens/ Anaerobic Sulphite Reducers	USFDA BAM Chapter 16, (8 <sup>th</sup> Edition): 2001	≥ 10 cfu/g
		Commercial Sterility	USFDA BAM (8 <sup>th</sup> Edition): 2001, Chapter 21A Chapter 61, Microbiological Examination of foods, APHA (4 <sup>th</sup> Edition): 2001	Qualitative (Sterile/Non sterile)
		Flat Sour Organisms (Spore Formers)	Chapter 25 of Microbiological Examination of food, APHA (4 <sup>th</sup> Edition): 2001	≤10 cfu/g
<b>15.</b>	<b>Jam, Juices, Sauces and Concentrates</b>	Aerobic Plate Count	USFDA BAM, Chapter 3, (8 <sup>th</sup> Edition): 2001	≥ 10 cfu/g or ml
		Yeast & Moulds	USFDA BAM Chapter 18, (8 <sup>th</sup> Edition): 2001	≥ 10 cfu/g or ml
		Coliform Count	USFDA BAM Chapter 4 (I), (8 <sup>th</sup> Edition): 2013	≥ 10 cfu/g or ml
		Coliforms MPN	USFDA BAM Chapter 4 (I), (8 <sup>th</sup> Edition): 2013	(≥ 0.3 to >110) MPN/g (≥ 0.9 to >2300) MPN/g
		Faecal Coliforms / Thermotolerant Coliforms	USFDA BAM Chapter 4 (I), (8 <sup>th</sup> Edition): 2013	(≥ 3 to >1660) MPN/g (≥ 0.9 to >2300) MPN/g
		E.Coli Count	USFDA BAM Chapter 4 (I), (8 <sup>th</sup> Edition): 2013	≥ 10 cfu/g or ml



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	<b>Jam, Juices, Sauces and Concentrates</b>	E.Coli MPN	USFDA BAM Chapter 4 (I), (8 <sup>th</sup> Edition): 2013	( $\geq 3$ to $>1660$ ) MPN/g ( $\geq 0.9$ to $>2300$ ) MPN/g
		Staphylococcus Aureus	USFDA BAM Chapter 12, (8 <sup>th</sup> Edition): 2001	$\geq 10$ cfu/g or ml
		Salmonella	USFDA BAM Chapter 5, (8 <sup>th</sup> Edition): 2014	Qualitative (Presence/ Absent)/25 g
		Faecal Streptococci /Enterococci Count	IS 5887 (Part 2): 1976	$\geq 10$ cfu/g or ml
		Faecal Streptococci/ Enterococci MPN	IS 5887 (Part 2): 1976	( $\geq 0.3$ to $>110$ ) MPN/g
		Clostridium Perfringens (Anaerobic Sulphite Reducing Bacteria)	USFDA BAM Chapter 13, (8 <sup>th</sup> Edition): 2001	$\geq 10$ cfu/g or ml
		Flat Sour Organisms (Spore Formers)	Chapter 25 of Microbiological Examination of food, APHA (4 <sup>th</sup> Edition): 2001	$\geq 10$ cfu/g or ml
<b>II.</b>	<b>WATER</b>			
<b>1.</b>	<b>Water For Food Processing Industry, Drinking Water Packaged Drinking Water Packaged Natural Mineral Water</b>	Total Plate Count	IS 1622: 1981	$\geq 1$ cfu/ml
		Proteolytic Bacteria	IS 4251: 1967 Appendix A-1	$\geq 1$ cfu/ml
		Lipolytic Bacteria	IS 4251: 1967 Appendix A-2	$\geq 1$ cfu/ml

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	<b>Water For Food Processing Industry, Drinking Water Packaged Drinking Water Packaged Natural Mineral Water</b>	Total Plate Count at 22°C For 72 Hrs	ISO 6222: 1999	≥1 cfu/ml
		Total Plate Count at 37°C For 48 Hrs		
		Total Coliforms	ISO 9308-1: 2014	Qualitative (Presence/Absence)/ 100 ml
		Total Coliforms	IS 1622: 1981 APHA (22 <sup>nd</sup> Edition) 9221B: 2012,	(≥ 1 to >161) MPN/100 ml (≥ 1.1 to >1100) MPN /100 ml
		Faecal Coliforms	IS 5887 (Part 1) 1976 APHA (22 <sup>nd</sup> Edition) 9221E: 2012	Qualitative (Presence/ Absence)/ 250 ml (≥ 1.1 to >1100) MPN/ 100 ml
		Escherichia Coli	ISO 9308-1: 2014	Qualitative (Presence/Absence)/ 100 ml
			IS 5887 (Part 1): 1976	Qualitative (Presence/ Absence)/ 250 ml
		Escherichia Coli	IS 1622: 1981	(≥1 to >161 MPN)/ 100 ml (≥ 1.1 to >1100 MPN)/ 100 ml

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	<b>Water For Food Processing Industry, Drinking Water Packaged Drinking Water Packaged Natural Mineral Water</b>	Faecal Streptococci or Enterococci	ISO 7899-2: 2000	Qualitative (Presence/Absence)/ 100 ml
			IS 5887 (Part 2): 1976	Qualitative (Presence/Absence)/ 250 ml
		Faecal Streptococci or Enterococci	APHA (22 <sup>nd</sup> Edition) 9230B: 2012, IS 1622: 1981	(≥ 1.1 to >1100) MPN/ 100 ml (≥ 1.1 to >161) MPN/ 100 ml
		Salmonella Spp.	APHA (22 <sup>nd</sup> Edition) 9260-B: 2012, IS 15187: 2002	Qualitative (Presence/ Absence)/ 100 ml of water
			IS 5887 (Part 3): 1999	Qualitative (Presence/Absence)/ 250 ml
		Pseudomonas Aeruginosa	ISO 16266: 2006	Qualitative (Presence/ Absence)/ 100 ml
			IS 13428: 2005 Annexure D	Qualitative (Presence/Absence)/ 250 ml
		Shigella	IS 5887 (Part 7): 1999	Qualitative (Presence/Absence)/ 250 ml
	Vibrio Cholerae	IS 5887 (Part 5): 1976	Qualitative (Presence/Absence)/ 250 ml	

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	<b>Water For Food Processing Industry, Drinking Water</b>	Clostridium Perfringens (Including Spores)/ Sulphite Reducing Anaerobes	IS 13428: 2005 Annexure C 98/83/EC: 1998 Annexure III ISO 14189: 2013	Qualitative (Presence/ Absence)/ 100 ml or 50 ml
		<b>Packaged Drinking Water</b>	Staphylococcus Aureus	IS 5887 (Part 2): 1976
	<b>Packaged Natural Mineral Water</b>	Yeast and Moulds	IS 5403: 1999	Qualitative (Presence/Absence)/ 250 ml
		Vibrio Parahaemolyticus	IS 5887 (Part 5): 1976	Qualitative (Presence/Absence)/ 250 ml

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**NOTE:** The Laboratory has demonstrated competence for the stated scope for **WATER**. This however does not fully cover the specification requirements of **BIS for the Packaged Drinking Water as per IS 14543 and the Packaged Natural Mineral Water IS 13428**.

**Rini Narayan**  
**Convenor**

**N. Venkateswaran**  
**Program Manager**