

Laboratory	Robust Materials Technology Pvt. Ltd., No. 94, 2nd Floor, Thirumala Complex, Nagarabhavi Main Road, NGEF Layout, Nagarabhavi, Bengaluru, Karnataka		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Biological Testing	Issue Date	11.09.2015
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S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
I.	FOOD AND AGRICULTURAL PRODUCTS			
1.	Animal Feed	Aerobic Plate Count	IS 5402: 2012	≥ 10 cfu/g
		Yeast and Mould Count	IS 5403: 1999 (RA 2005)	≥ 10 cfu/g
		Coliforms	IS 5401 (Part 1): 2002	≥ 10 cfu/g
		Enterobacteriaceae	IS/ISO 7402: 1993 (RA 2001)	≥ 10 cfu/g
		Bacillus Cereus	IS 5887 (Part 6): 2012	≥ 10 cfu/g
		Escherichia Coli	IS 5887 (Part 1): 1976 (RA 2005)	Qualitative (Present/Absent)/25 g
		Shigella Spp.	IS 5887 (Part 7): 1999 (RA 2005)	Qualitative (Present/Absent)/25 g
		Staphylococcus Aureus	IS 5887 (Part 2): 1976 (RA 2005)	Qualitative (Present/Absent)/25 g
2.	Beverages (Soft Drinks)	Aerobic Plate Count	IS 5402: 2012	≥ 1 cfu/ml
		Yeast and Mould Count	IS 5403: 1999 (RA 2005)	≥ 1 cfu/ml
		Coliforms	IS 5401 (Part 1): 2002	≥ 1 cfu/ml
		Enterobacteriaceae	IS/ISO 7402: 1993 (RA 2001)	≥ 1 cfu/ml
		Bacillus Cereus	IS 5887 (Part 6): 2012	≥ 1 cfu/ml
		Escherichia Coli	IS 5887 (Part 1): 1976 (RA 2005)	Qualitative (Present/Absent)/25 ml

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	Beverages (Soft Drinks)	Shigella Spp.	IS 5887 (Part 7): 1999 (RA 2005)	Qualitative (Present/Absent)/25 ml
		Staphylococcus Aureus	IS 5887(Part 2): 1976 (RA 2005)	Qualitative (Present/Absent)/25 ml
3.	Canned and Retort Pouch Foods, Ready to Eat Foods, Cooked Food	Aerobic Plate Count	IS 5402: 2012	≥ 10 cfu/g
		Yeast and Mould Count	IS 5403: 1999 (RA 2005)	≥ 10 cfu/g
		Coliforms	IS 5401 (Part 1): 2002	≥ 10 cfu/g
		Enterobacteriaceae	IS/ISO 7402: 1993 (RA 2001)	≥ 10 cfu/g
		Bacillus Cereus	IS 5887 (Part 6): 2012	≥ 10 cfu/g
		Escherichia Coli	IS 5887 (Part 1): 1976 (RA 2005)	Qualitative (Present/Absent)/25 g
		Shigella Spp.	IS 5887 (Part 7): 1999 (RA 2005)	Qualitative (Present/Absent)/25 g
		Staphylococcus Aureus	IS 5887 (Part 2): 1976 (RA 2005)	Qualitative (Present/Absent)/25 g
4.	Fruits and Vegetables Products (Fruit Salads, Fruit Juices, Raw Vegetable Salad)	Aerobic Plate Count	IS 5402: 2012	≥ 10 cfu/g ≥ 1 cfu/ml
		Yeast and Mould Count	IS 5403: 1999 (RA 2005)	≥ 10 cfu/g ≥ 1 cfu/ml
		Coliforms	IS 5401 (Part 1): 2002	≥ 10 cfu/g ≥ 1 cfu/ml

Sumit Sundriyal
Convenor

N. Venkateswaran
Program Manager

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S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Fruits and Vegetables Products (Fruit Salads, Fruit Juices, Raw Vegetable Salad)	Enterobacteriaceae	IS/ISO 7402: 1993 (RA 2001)	≥10 cfu/g ≥1 cfu/ml
		Bacillus Cereus	IS 5887 (Part 6): 2012	≥10 cfu/g ≥1 cfu/ml
		Escherichia Coli	IS 5887 (Part 1): 1976 (RA 2005)	Qualitative (Present/Absent)/25 g / 25 ml
		Shigella Spp.	IS 5887 (Part 7): 1999 (RA 2005)	Qualitative (Present/Absent)/25 g / 25 ml
		Staphylococcus Aureus	IS 5887 (Part 2): 1976 (RA 2005)	Qualitative (Present/Absent)/25 g / 25 ml
5.	Jam, Jelly and Sauces	Aerobic Plate Count	IS 5402: 2012	≥ 10 cfu/g
		Yeast and Mould Count	IS 5403: 1999 (RA 2005)	≥ 10 cfu/g
		Coliforms	IS 5401 (Part 1): 2002	≥ 10 cfu/g
		Enterobacteriaceae	IS/ISO 7402: 1993 (RA 2001)	≥ 10 cfu/g
		Bacillus Cereus	IS 5887 (Part 6): 2012	≥ 10 cfu/g
		Escherichia Coli	IS 5887 (Part 1): 1976 (RA 2005)	Qualitative (Present/Absent)/25 g
		Shigella Spp.	IS 5887 (Part 7): 1999 (RA 2005)	Qualitative (Present/Absent)/25 g

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	Jam, Jelly and Sauces	Staphylococcus Aureus	IS 5887 (Part 2): 1976 (RA 2005)	Qualitative (Present/Absent)/25 g
6.	Meat and Meat Products (Mutton)	Aerobic Plate Count	IS 5402: 2012	≥ 10 cfu/g
		Yeast and Mould Count	IS 5403: 1999 (RA 2005)	≥ 10 cfu/g
		Coliforms	IS 5401 (Part 1): 2002	≥ 10 cfu/g
		Enterobacteriaceae	IS/ISO 7402: 1993 (RA 2001)	≥ 10 cfu/g
		Bacillus Cereus	IS 5887 (Part 6): 2012	≥ 10 cfu/g
		Escherichia Coli	IS 5887 (Part 1): 1976 (RA 2005)	Qualitative (Present/Absent)/25 g
		Shigella Spp.	IS 5887 (Part 7): 1999 (RA 2005)	Qualitative (Present/Absent)/25 g
		Staphylococcus Aureus	IS 5887 (Part 2): 1976 (RA 2005)	Qualitative (Present/Absent)/25 g
7.	Milk (Milk, Pasteurized Milk, Tetra Pack Milk, Condensed Milk)	Aerobic Plate Count	IS 5402: 2012	≥ 10 cfu/g ≥ 1 cfu/ml
		Enumeration of Yeast and Mould	IS 5403: 1999 (RA 2005)	≥ 10 cfu/g ≥ 1 cfu/ml
		Enumeration of Coliforms	IS 5401 (Part 1): 2002	≥ 10 cfu/g ≥ 1 cfu/ml
		Enterobacteriaceae	IS 7402: 1993 (RA 2001)	≥ 10 cfu/g ≥ 1 cfu/ml

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	Milk (Milk, Pasteurized Milk, Tetra Pack Milk, Condensed Milk)	B. Cereus	IS 5887 (Part 6): 2012	≥ 10 cfu/g ≥ 1 cfu/ml
		E. Coli	IS 5887 (Part 1): 1976 (RA 2005)	Qualitative (Present/Absent)/25 g / 25 ml
		Shigella	IS 5887 (Part 7): 1999 (RA 2005)	Qualitative (Present/Absent)/25 g / 25 ml
		Staphylococcus Aureus	IS 5887 (Part 2): 1976 (RA 2005)	Qualitative (Present/Absent)/25 g / 25 ml
8.	Dairy Products (Fermented Milk Product, Milk Powder, Paneer, Cheese, Butter, Ghee)	Aerobic Plate Count	IS 5402: 2002	≥ 10 cfu/g ≥ 1 cfu/ml
		Enumeration of Yeast and Mould	IS 5403: 1999 (RA 2005)	≥ 10 cfu/g ≥ 1 cfu/ml
		Enumeration of Coliforms	IS 5401 (Part 1): 2002	≥ 10 cfu/g ≥ 1 cfu/ml
		Enterobacteriaceae	IS 7402: 1993 (RA 2001)	≥ 10 cfu/g ≥ 1 cfu/ml
		B. Cereus	IS 5887 (Part 6): 2012	≥ 10 cfu/g ≥ 1 cfu/ml
		E. Coli	IS 5887 (Part 1): 1976 (RA 2005)	Qualitative (Present/Absent)/25 g / 25 ml

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	Dairy Products (Fermented Milk Product, Milk Powder, Paneer, Cheese, Butter, Ghee)	Shigella	IS 5887 (Part 7): 1999 (RA 2005)	Qualitative (Present/Absent)/25 g / 25 ml
		Staphylococcus Aureus	IS 5887 (Part 2): 1976 (RA 2005)	Qualitative (Present/Absent)/25 g / 25 ml
9.	Poultry and Poultry Products (Chicken)	Aerobic Plate Count	IS 5402: 2012	≥ 10 cfu/g
		Yeast and Mould Count	IS 5403: 1999 (RA 2005)	≥ 10 cfu/g
		Coliforms	IS 5401 (Part 1): 2002	≥ 10 cfu/g
		Enterobacteriaceae	IS/ISO 7402: 1993 (RA 2001)	≥ 10 cfu/g
		Bacillus Cereus	IS 5887 (Part 6): 2012	≥ 10 cfu/g
		Escherichia Coli	IS 5887 (Part 1): 1976 (RA 2005)	Qualitative (Present/Absent)/25 g
		Shigella Spp.	IS 5887 (Part 7): 1999 (RA 2005)	Qualitative (Present/Absent)/25 g
		Staphylococcus Aureus	IS 5887 (Part 2): 1976 (RA 2005)	Qualitative (Present/Absent)/25 g

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II. WATER				
1.	Raw Water, Domestic Water, Drinking Water	Standard Plate Count	IS 1622: 1981 (RA 2014)	≥ 1 cfu/ml
		Coliforms	IS 1622: 1981 (RA 2014)	(≥ 1 MPN to 161 MPN)/ 100 ml multiplied by dilution factor
		Faecal Coliforms	IS 1622: 1981 (RA 2014)	(≥ 1 MPN to 161 MPN)/ 100 ml multiplied by dilution factor
		E. Coli	IS 1622: 1981 (RA 2014)	Qualitative (Present/Absent) /100 ml
2.	Packaged Drinking Water	Yeast and Mould Count	IS 5403: 1999 (RA 2005) IS 15185: 2002	Qualitative (Present/Absent)/ 250 ml
		E. Coli and Coliforms	IS 15185: 2002	Qualitative (Present/Absent)/ 250 ml
		Shigella	IS 5887 (Part 7): 1999 (RA 2005) IS 15185: 2002	Qualitative (Present/Absent)/ 250 ml
		Staphylococcus Aureus	IS 5887 (Part 2): 1976 (RA 2005) IS 15185: 2002	Qualitative (Present/Absent)/ 250 ml
		Pseudomonas Aeruginosa	IS 13428: 2005 Annexure D	Qualitative (Present/Absent)/ 250 ml

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Sumit Sundriyal
Convenor

N. Venkateswaran
Program Manager