

Laboratory Food Hygiene and Health Laboratory, A-512/513, Megacenter, Commercial Complex, Magarpatta, Solapur Road, Hadapsar, Pune, Maharashtra

Accreditation Standard ISO/IEC 17025: 2005

Discipline Biological Testing **Issue Date** 06.07.2015

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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.	WATER			
1.	Drinking Water From Various (Wells, Bore-Wells, Taps, Storage Tanks, WTP, Rivers / Ponds / Lakes)	Total Plate Count	IS 5402: 2012 (RA 2012)	≥ 1 cfu / ml
		Coliform	IS 1622: 1981 (RA 2003)	(1 MPN to 16 MPN)/ 100 ml (1 MPN to 161 MPN)/ 100 ml (2 MPN to 1600 MPN)/ 100 ml
		Faecal coliforms	IS 1622: 1981 (RA 2003)	(1 MPN to 16 MPN)/ 100 ml (1 MPN to 161 MPN)/ 100 ml (2 MPN to 1600 MPN)/ 100 ml
		E.coli	IS 1622: 1981 (RA 2003)	Qualitative (Present /Absent)/100 ml (1 MPN to 16 MPN)/ 100 ml (1 MPN to 161 MPN)/ 100 ml (2 MPN to 1600 MPN)/ 100 ml
2.	Packaged Drinking Water	Aerobic Microbial count at 37 °C in 24 hrs	IS 5402: 2012 (RA 2012)	≥1 cfu / ml
		Aerobic Microbial Count at 20 °C to 22 °C in 72 hr	IS 5402: 2012 (RA 2012)	≥1 cfu / ml

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	Packaged Drinking Water	Coliform	IS15185: 2002, IS 5401(Part 1): 2012	Qualitative (Present / Absent)/ 250 ml
		E.coli By MFT By Colony count technique	IS 15185: 2002, IS 5887 (Part 1): 1976 (RA 2005)	Qualitative (Present / Absent)/ 250 ml
		Yeast and mould	IS 5403: 1999 (RA 2005)	Qualitative (Present / Absent)/ 250 ml
		Salmonella	IS 15187: 2002 (RA 2005)	Qualitative (Present / Absent)/ 250 ml
		Shigella	IS 5887 (Part 7): 1999 (RA 2005)	Qualitative (Present / Absent)/ 250 ml
		Staph aureus	IS 5887 (Part 2): 1976 (RA 2005)	Qualitative (Present / Absent)/ 250 ml
		Faecal streptococci	IS 5887 (Part 2): 1976 (RA 2005), IS 15186: 2002	Qualitative (Present / Absent)/ 250 ml
		Vibrio cholerae	IS 5887 (Part 5): 1976 (RA 2005)	Qualitative (Present / Absent)/ 250 ml
		Vibrio paraheamolyticus	IS 5887 (Part 5): 1976 (RA 2005)	(Present / Absent)/ 250 ml
		Sulphite reducing anaerobes	IS 13428: 2005 Annexure C	Qualitative (Present / Absent)/ 50 ml
		Pseudomonas aeruginosa	IS 13428: 2005 Annexure D	Qualitative (Present / Absent)/ 250 ml

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3.	Packaged Natural Mineral Water	Coliform	IS 15185: 2002, IS 5401 (Part 1): 2012	Qualitative (Present / Absent)/ 250 ml
		E.coli	IS 15185: 2002, IS 5887 (Part 1): 1976 (RA 2005)	Qualitative (Present / Absent)/ 250 ml
		Yeast and mould	IS 5403: 1999 (RA 2005)	Qualitative (Present / Absent)/ 250 ml
		Salmonella	IS 15187: 2002 (RA 2005)	Qualitative (Present / Absent)/ 250 ml
		Shigella	IS 5887 (Part 7): 1999 (RA 2005)	Qualitative (Present / Absent)/ 250 ml
		Staph aureus	IS 5887 (Part 2): 1976 (RA 2005)	Qualitative (Present / Absent)/ 250 ml
		Faecal streptococci	IS 5887 (Part 2): 1976 (RA 2005) IS 15186: 2002	Qualitative (Present / Absent)/ 250 ml
		Vibrio cholerae	IS 5887 (Part 5): 1976 (RA 2005)	Qualitative (Present / Absent)/ 250 ml
		Vibrio paraheamolyticus	IS 5887 (Part 5): 1976 (RA 2005)	Qualitative (Present / Absent)/ 250 ml
		Sulphite reducing anaerobes	IS 13428: 2005 Annexure C	Qualitative (Present / Absent)/ 50 ml
Pseudomonas aeruginosa	IS 13428: 2005 Annexure D	Qualitative (Present / Absent)/ 250 ml		

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4.	Water for Food Processing Industries	Aerobic Microbial count	IS 5402: 2012 (RA 2012)	≥1 cfu / ml
		Coliform	IS 1622: 1981 (RA 2003)	Qualitative (Present /Absent)/ 100 ml
5.	Water for Swimming pools	Standard Plate Count	IS 3328: 1993 (RA 2008) Annexure A	≥1 cfu/ml
		Coliform	IS 1622: 1981 (RA 2003)	Qualitative (Present /Absent)/ 100 ml
II.	FOOD & AGRICULTURAL PRODUCTS			
1.	Milk & Milk Products (Raw/Pasteurized/ Sterilized/UHT Milk Pasteurized / Sterilized / UHT, Cream Flavored Milk, Evaporated Milk, Sweetened Condensed Milk, Pasteurized Butter, Milk Powder, Cream Whey, Edible casein, Ice-Cream, Frozen desserts, Milk lolly, Ice candy, Cheeses, Dahi, Yogurt, Dahi Chakka, Paneer, Khoya, Shrikhand)	Total plate count	IS 5402: 2012 (RA 2012)	≥10 cfu/gm
		Coliform	IS 5401(Part 1): 2012	≥10 cfu/gm
		E.coli	IS 5887 (Part 1): 1976 (RA 2005)	≥10 cfu/gm
		Yeast and mould count	IS 5403: 1999 (RA 2005)	≥10 cfu/gm
		Salmonella	IS 5887 (Part 3): 1999 (RA 2005)	Qualitative (Present/Absent)/ 25gm
		Shigella	IS 5887 (Part 7): 1999 (RA 2005)	Qualitative (Present/Absent)/ 25gm
		Staph aureus Coagulase	IS 5887 (Part 2): 1976 (RA 2005)	Qualitative (Present/Absent)/ 10gm
	Listeria monocytogenes	IS 14988 (Part 1): 2001	Qualitative (Present/Absent)/ gm	

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2.	Spices and Condiments and Related Products	Total plate count	IS 5402: 2012 (RA 2012)	≥10cfu/gm
		Coliform	IS 5401 (Part 1): 2012	≥10cfu/gm
		E.coli	IS 5887 (Part 1): 1976 (RA 2005)	Qualitative (Present/Absent)/ gm
		Yeast and mould count	IS 5403: 1999 (RA 2005)	≥10cfu/gm
		Salmonella	IS 5887 (Part 3): 1999 (RA 2005)	Qualitative (Present / Absent)/ 25gm
3.	Sugar	Total plate count	IS 5402: 2012 (RA 2012)	≥ 10 cfu /gm
		Coliform	IS 5401 (Part 1): 2012	≥ 10 cfu /gm
		E.coli	IS 5887 (Part 1): 1976 (RA 2005)	Qualitative (Present / Absent)/ gm/ml
4.	Foods for Infant Nutrition (Infant Milk Food, Infant formula, Infant Milk Substitutes Cereal Based Complementary Foods, Follow-up Formula Complementary Foods)	Total plate count	IS 5402: 2012 (RA 2012)	≥10cfu/gm
		Coliform	IS 5401 (Part 1): 2012	Qualitative (Present / Absent)/ gm
		E.coli	IS 5887 (Part 1): 1976 (RA 2005)	Qualitative (Present / Absent)/ gm
		Yeast and mould count	IS 5403: 1999 (RA 2005)	Qualitative (Present / Absent)/ gm
		Salmonella	IS 5887 (Part 3): 1999 (RA 2005)	Qualitative (Present / Absent)/ 25 gm
		Shigella	IS 5887 (Part 7): 1999 (RA 2005)	Qualitative (Present / Absent)/ 25 gm
	Staph aureus Coagulase	IS5887 (Part 2): 1976 (RA 2005)	Qualitative (Present / Absent)/10 gm	

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5.	Cereals and Cereal Products, Pulses & Pulses Products Including Prepared Food Articles (either Roasted/Cooked/ Baked, and Cereal Based Complementary foods, Solvent extracted Flours, Cereals and Cereal products, Pulses and Pulses Products	Total plate count	IS 5402: 2012 (RA 2012)	≥ 10cfu/gm
		Coliform	IS 5401 (Part 1): 2012	≥ 10 cfu/gm
		E.coli	IS 5887 (Part 1): 1976 (RA 2005)	Qualitative (Present / Absent)/ gm
		Yeast and mould count	IS 5403: 1999 (RA 2005)	≥10 cfu/gm
		Salmonella	IS 5887 (Part 3): 1999 (RA 2005)	Qualitative (Present / Absent)/ 25gm
		Staph aureus Coagulase positive	IS 5887 (Part 2): 1976 (RA 2005)	Qualitative (Present / Absent)/ 10 gm
6.	Malt and Malt Based Foods	Total plate count	IS 5402: 2012 (RA 2012)	≥10cfu/gm
		Coliform	IS 5401 (Part 1): 2012	≥10cfu/gm
		E.coli	IS 5887 (Part 1): 1976 (RA 2005)	Qualitative (Present / Absent)/ gm
		Yeast and mould count	IS 5403: 1999 (RA 2005)	≥10 cfu/gm
		Salmonella	IS 5887 (Part 3): 1999 (RA 2005)	Qualitative (Present / Absent)/ 25gm
		Shigella	IS 5887 (Part 7): 1999 (RA 2005)	Qualitative (Present / Absent) / 25gm
		Staph aureus	IS 5887 (Part 2): 1976 (RA 2005)	Qualitative (Present / Absent)/ 10 gm

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	Malt and Malt Based Foods	Faecal streptococci	IS 5887 (Part 2): 1976 (RA 2005)	Qualitative (Present / Absent)/10 gm
		Vibrio cholerae	IS 5887 (Part 5): 1976 (RA 2005)	Qualitative (Present / Absent)/10 gm
		Vibrio paraheamolyticus	IS 5887 (Part 5): 1976 (RA 2005)	Qualitative (Present / Absent)/ 10 gm
7.	Meat and Meat Products	Total plate count	IS 5402: 2012 (RA 2012)	≥ 10 cfu /gm
		Coliform	IS 5401(Part 1): 2012	≥ 10 cfu /gm
		E.coli	IS 5887 (Part 1): 1976 (RA 2005)	≥ 10 cfu /gm
		Salmonella	IS 5887 (Part 3): 1999 (RA 2005)	Qualitative (Present / Absent)/25 gm
		Staph aureus	IS 5887 (Part 2): 1976 (RA 2005)	Qualitative (Present / Absent)/25 gm
8.	Fish and Fish Products	Total plate count	IS 5402: 2012 (RA 2012)	≥10cfu/gm
		E.coli	IS 5887 (Part 1): 1976 (RA 2005)	Qualitative (Present / Absent)/ gm
		Salmonella	IS 5887 (Part 3): 1999 (RA 2005)	Qualitative (Present / Absent)/ 25 gm
		Shigella	IS 5887 (Part 7): 1999 (RA 2005)	Qualitative (Present / Absent)/25 gm

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	Fish and Fish Products	Staph aureus	IS 5887 (Part 2): 1976 (RA 2005)	Qualitative (Present / Absent)/25 gm
		Vibrio cholerae	IS 5887 (Part 5): 1976 (RA 2005)	Qualitative (Present / Absent)/25 gm
		Vibrio paraheamolyticus	IS 5887 (Part 5): 1976 (RA 2005)	Qualitative (Present / Absent)/25 gm
9.	Fruits and Vegetable Products			
a.	Thermally Processed or Frozen Fruits, Vegetable products, Juices and soups, Soup powders, purees and pastes, Ketchups and Sauces, Jams / Jellies / Marmalades and Chutneys, Pickles/Preserve/ Dates/Dry fruits and nuts, Raisins, Table Olives, Desiccated Coconut powder, Ready to Serve Beverages & Fruit Beverages	Total plate count	IS 5402: 2012 RA 2012	≥ 1 cfu/gm/ml ≥ 10 cfu/gm/ml
		Coliform	IS 5401(Part 1): 2012	≥ 1 cfu/gm/ml ≥ 10 cfu/gm/ml
		E.coli	IS 5887 (Part 1): 1976 (RA 2005)	Qualitative (Present/Absent)/gm/ml
		Yeast and mould count	IS 5403: 1999 (RA 2005)	≥ 1 cfu/gm/ml or ≥ 10 cfu/gm/ml
		Salmonella	IS 5887 (Part 3): 1999 (RA 2005)	Qualitative (Present / Absent)/ 25 gm/ml
	Shigella	IS 5887 (Part 7): 1999 (RA 2005)	Qualitative (Present / Absent)/ 25 gm/ml	

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b.	Fruit Squashes / Crushes/ Syrups / Sharbats, Cordials/ Barley waters, Synthetic Syrups / Sharbats	Staph aureus Coagulase positive	IS 5887 (Part 2): 1976 (RA 2005)	Qualitative (Present/ Absent)/ 10 gm/ml
		Vibrio cholerae	IS 5887 (Part 5): 1976 (RA 2005)	Qualitative (Present/ Absent)/ 25 gm/ml
10.	Beverages (Alcoholic / Non-Alcoholic, Carbonated and Non-carbonated)	Aerobic Microbial count at 37 °C in 24 hrs	IS 5402: 2012 (RA 2012)	≥ 1 cfu /ml/gm
		Coliform (Colony Count Technique)	IS 5401 (Part 1): 2012	≥ 1 cfu / ml/gm
		Yeast and mould count	IS 5403: 1999 (RA 2005)	≥ 1 cfu / ml/gm
11.	Cooked Food	Total Plate Count	IS 5402: 2012 (RA 2012)	≥ 1 cfu/gm/ml or ≥ 10 cfu/gm/ml
		Coliform (Colony count technique)	IS 5401 (Part 1): 2012	≥ 1 cfu/gm/ml or ≥10 cfu/gm/ml
		E.coli	IS 5887 (Part 1): 1976 (RA 2005)	Qualitative (Present/Absent)/gm/ml
		Salmonella	IS 5887 (Part 3): 1999 (RA 2005)	Qualitative (Present/ Absent)/ 25 gm/ml
		Staph aureus Coagulase	IS 5887 (Part 2): 1976 (RA 2005)	Qualitative (Present/Absent)/10 gm/ml
		Yeast and mould count	IS 5403: 1999 (RA 2005)	≥ 1 cfu/gm/ml or ≥10 cfu/gm/ml

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12.	Processed and Canned Food	Total Plate Count	IS 5402: 2012 (RA 2012)	≥ 1 cfu/gm/ml or ≥ 10 cfu/gm/ml
		Coliform (Colony count technique)	IS 5401 (Part 1): 2012	≥ 1 cfu / gm/ml or ≥ 10 cfu/gm/ml
		E.coli	IS 5887 (Part 1): 1976 (RA 2005)	Qualitative (Present/Absent)/gm/ml
		Salmonella	IS 5887 (Part 3): 1999 (RA 2005)	Qualitative (Present/Absent)/ 25gm/ml
		Staph aureus Coagulase positive	IS 5887 (Part 2) : 1976 (RA 2005)	Qualitative (Present / Absent)/ 10 gm/ml
		Yeast and mould count	IS 5403: 1999 (RA 2005)	≥ 1 cfu/gm/ml ≥ 10 cfu/gm/ml
13.	Raw Food	Total Plate Count	IS 5402: 2012 RA 2012	≥ 1 cfu/gm/ml ≥ 10 cfu/gm/ml
		Coliform	IS 5401(Part 1): 2012	≥ 1 cfu/gm/ml ≥ 10 cfu/gm/ml
		E.coli	IS 5887 (Part 1): 1976 (RA 2005)	Qualitative (Present/Absent)/ gm/ml
		Salmonella	IS 5887 (Part 3): 1999 (RA 2005)	Qualitative (Present/Absent)/25 gm/ml
		Staph aureus Coagulase	IS 5887 (Part 2) : 1976 (RA 2005)	Qualitative (Present/Absent)/10 gm/ml
		Yeast and mould count	IS 5403: 1999 (RA 2005)	≥ 1 cfu/gm/ml ≥ 10 cfu/gm/ml

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14.	Nutritional Supplement	Total Plate Count	IS 5402: 2012 (RA 2012)	≥ 1 cfu/gm/ml or ≥ 10 cfu/gm/ml
		Coliform	IS 5401(Part 1): 2012	≥ 1 cfu/gm/ml or ≥10 cfu/gm/ml
		E.coli	IS 5887 (Part 1): 1976 (RA 2005)	Qualitative (Present/Absent)/gm/ml
		Salmonella	IS 5887 (Part 3): 1999 (RA 2005)	Qualitative (Present/Absent)/25 gm/ml
		Staph aureus Coagulase positive	IS 5887 (Part 2): 1976 (RA 2005)	Qualitative (Present/Absent)/10 gm/ml
		Yeast and mould count	IS 5403: 1999 (RA 2005)	≥ 1 cfu/gm/ml ≥10 cfu/gm/ml
15.	Coffee, Chicory, and Cocoa (Instant Coffee, Coffee Chicory Mixture)	Salmonella	IS 5887 (Part 3): 1999 (RA 2005)	Qualitative (Present / Absent)/ 25 gm
		Shigella	IS 5887 (Part 7): 1999 (RA 2005)	Qualitative (Present / Absent)/ 25 gm
		Staph aureus Coagulase positive	IS 5887 (Part 2): 1976 (RA 2005)	Qualitative (Present / Absent)/25 gm
		E.coli	IS 5887 (Part 1): 1976 (RA 2005)	Qualitative (Present/Absent)/ gm
		Vibrio cholerae	IS 5887 (Part 5): 1976 (RA 2005)	Qualitative (Present / Absent)/25 gm

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	Coffee, Chicory, and Cocoa (Instant Coffee, Coffee Chicory Mixture)	Vibrio paraheamolyticus	IS 5887 (Part 5): 1976 (RA 2005)	Qualitative (Present / Absent)/25 gm
		Faecal streptococci	IS 5887 (Part 2): 1976 (RA 2005)	Qualitative (Present / Absent)/ 25 gm
16.	Animal Feed	Salmonella	IS 5887 (Part 3): 1999 (RA 2005)	Qualitative (Present / Absent)/25 gm
		Shigella	IS 5887 (Part 7): 1999 (RA 2005)	Qualitative (Present / Absent)/ 25 gm
		Staph aureus Coagulase positive	IS 5887 (Part 2): 1976 (RA 2005)	Qualitative (Present / Absent)/ 25 gm
		E.coli	IS 5887 (Part 1): 1976 (RA 2005)	Qualitative (Present/ Absent)/ gm
		Vibrio cholera	IS 5887 (Part 5): 1976 (RA 2005)	Qualitative (Present / Absent)/ 25 gm
		Vibrio paraheamolyticus	IS 5887 (Part 5): 1976 (RA 2005)	Qualitative (Present / Absent)/ 25 gm
		Faecal streptococci	IS 5887 (Part 2): 1976 (RA 2005)	Qualitative (Present / Absent)/ 25 gm
17.	Tea and Tea Products	Salmonella	IS 5887 (Part 3): 1999 (RA 2005)	Qualitative (Present/Absent)/ 25 gm
		Shigella	IS 5887 (Part 7): 1999 (RA 2005)	Qualitative (Present/Absent)/ 25 gm

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	Tea and Tea Products	Staph aureus Coagulase positive	IS 5887 (Part 2): 1976 (RA 2005)	Qualitative (Present / Absent)/ 25 gm
		E.coli	IS 5887 (Part 1): 1976 (RA 2005)	Qualitative (Present/ Absent)/ gm
		Vibrio cholera	IS 5887 (Part 5): 1976 (RA 2005)	Qualitative (Present / Absent)/ 25 gm
		Vibrio paraheamolyticus	IS 5887 (Part 5): 1976 (RA 2005)	Qualitative (Present / Absent)/ 25 gm
		Faecal streptococci	IS 5887 (Part 2): 1976 (RA 2005)	Qualitative (Present / Absent)/ 25 gm

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