

Laboratory	RCA Laboratories, 501/502/522 & 213, Milan Industrial Estate, Abhudaya Nagar, Cotton Green, Mumbai, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Biological Testing	Issue Date	31.01.2016
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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
1.	FOODS & AGRICULTURAL PRODUCTS			
1.	Animal Feed	Aerobic Microbial Count	IS 5402: 2012	<10 cfu/g and above
	(Soyabean Meal, Rapeseed Meal)	Yeast & Mould	IS 5403: 1999 (RA 2009)	<10 cfu/g and above
		Coliform Count	IS 5401 (Part 1): 2012	<10 cfu/g and above
		E.coli (Isolation)	IS 5887 (Part 1): 1976 (RA 2005)	Qualitative (Present or Absent)/25 g
		E.coli (Enumeration)	IS 5887 (Part 1): 1976 (RA 2005)	<100 cfu/g and above
		Salmonella	IS 5887 (Part 3): 1976 (RA 2005)	Qualitative (Present or Absent)/25 g
		S.aureus (Enumeration)	IS 5887 (Part 2): 1976 (RA 2005)	<100 cfu/g and above
		S.aureus (Isolation)	IS 5887 (Part 2): 1976 (RA 2005)	Qualitative (Present or Absent)/25 g
		Shigella spp	IS 5887 (Part 7): 1999 (RA 2009)	Qualitative (Present or Absent)/25 g
		Bacillus cereus	IS 5887 (Part 6): 2012	<100 cfu/g and above
		Faecal Coliforms	BAM Chapter 4: 2002	(<3 MPN to 100 MPN)/g or ml
		Faecal Streptococci	IS 5887 (Part 2): 1976 (RA 2009)	<100 cfu/g and above

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2.	Bakery and Confectionery Products (Biscuit , Chocolate etc.)	Aerobic Microbial Count	IS 5402: 2012	<10 cfu/g and above
		Yeast & Mould	IS 5403: 1999 (RA 2009)	<10 cfu/g and above
		Coliform Count	IS 5401 (Part 1): 2012	<10 cfu/g and above
		E.coli (Isolation)	IS 5887 (Part 1): 1976 (RA 2005)	Qualitative (Present or Absent)/25 g
		E.coli (Enumeration)	IS 5887 (Part 1): 1976 (RA 2005)	<100 cfu/g and above
		S.aureus (Enumeration)	IS 5887 (Part 2): 1976 (RA 2009)	<100 cfu/g and above
		S.aureus (Isolation)	IS 5887 (Part 2): 1976 (RA 2009)	Qualitative (Present or Absent)/25 g
3.	Beverages (Alcoholic and Non – Alcoholic) (Cold Drink , Juices etc.)	Aerobic Microbial Count	IS 5402: 2012	1 cfu/ml and above
		Yeast & Mould	IS 5403: 1999 (RA 2009)	1 cfu/ml and above
		Coliform Count	IS 5401 (Part 1): 2012	1 cfu/ml and above
4.	Canned and Processed Food (Canned Rasgulla, Traditional Sweets, Farsan etc.)	Aerobic Microbial Count	IS 5402: 2012	<10 cfu/g and above
		Yeast & Mould	IS 5403: 1999 (RA 2009)	<10 cfu/g and above
		Coliform Count	IS 5401 (Part 1): 2012	<10 cfu/g and above
		E.coli (Isolation)	IS 5887 (Part 1): 1976 (RA 2005)	Qualitative (Present or Absent)/25 g
		E.coli (Enumeration)	IS 5887 (Part 1): 1976 (RA 2005)	<100 cfu/g and above

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	Canned and Processed Food (Canned Rasgulla, Traditional Sweets, Farsan etc.)	Salmonella	IS 5887 (Part 3): 199 (RA 2009)	Qualitative (Present or Absent)/25 g
		S.aureus (Enumeration)	IS 5887 (Part 2): 1976 (RA 2009)	<100 cfu/g and above
		S.aureus (Isolation)	IS 5887 (Part 2): 1976 (RA 2009)	Qualitative (Present or Absent)/25 g
5.	Sugar and Sugar Products	Mesophilic Bacterial Count	ICUMSA GS 2/3 – 41: (2011)	<10 cfu/g and above Or <10 cfu/10 g and above
a.	(Refined, Raw, Brown Sugar, Molasses etc.)	Thermophilic Spore Forming Bacteria	ICUMSA GS 2/3 – 49: (1994)	<10 cfu/g and above Or <10 cfu/10 g and above
		Yeast and Mould	ICUMSA GS2/3 – 47: (1998)	<10 cfu/g and above Or <10 cfu/10 g and above
6.	Cereal, Pulses and Cereal Products	Aerobic Microbial Count	IS 5402: 2012	<10 cfu/g and above
		Yeast & Mould	IS 5403: 1999 (RA 2009)	<10 cfu/g and above
		Coliform Count	IS 5401 (Part 1): 2012	<10 cfu/g and above
		E.coli (Isolation)	IS 5887 (Part 1): 1976 (RA 2005)	Qualitative (Present or Absent)/25 g
		E.coli (Enumeration)	IS 5887 (Part 1): 1976 (RA 2005)	<100 cfu/g and above

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	Cereal, Pulses and Cereal Products	Salmonella	IS 5887 (Part 3): 199 (RA 2009)	Qualitative (Present or Absent)/25 g
		S.aureus (Enumeration)	IS 5887 (Part 2): 1976 (RA 2009)	<100 cfu/g and above
		S.aureus (Isolation)	IS 5887 (Part 2): 1976 (RA 2009)	Qualitative (Present or Absent)/25 g
		Shigella spp	IS 5887 (Part 7): 1999 (RA 2009)	Qualitative (Present or Absent)/25 g
		Enterobacteriaceae	IS/ISO 7402: 1993 (RA 2007)	<10 cfu/g and above
		Bacillus cereus	IS 5887 (Part 6): 2012	<100 cfu/g and above
7.	Egg and Egg Products	Salmonella	IS 5887 (Part 3): 1999 (RA 2009)	Qualitative (Present or Absent)/25 g
		Listeria monocytogens	FDA BAM Chapter 10 April 2011, IS 14988 (Part 1): 2001 , (RA 2012)	Qualitative (Present or Absent)/25 g
8.	Fish and Sea Foods	Aerobic Microbial Count	IS 5402: 2012	<10 cfu/g and above
		Yeast & Mould	IS 5403: 1999 (RA 2009)	<10 cfu/g and above
		Coliform Count	IS 5401 (Part 1): 2012	<10 cfu/g and above
		E.coli (Isolation)	IS 5887 (Part 1): 1976 (RA 2005)	Qualitative (Present or Absent)/25 g
		E.coli (Enumeration)	IS 5887 (Part 1): 1976 (RA 2005)	<100 cfu/g and above

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	Fish and Sea Foods	Salmonella	IS 5887 (Part 3): 199 (RA 2009)	Qualitative (Present or Absent)/25 g
		S.aureus (Enumeration)	IS 5887 (Part 2): 1976 (RA 2009)	<100 cfu/g and above
		S.aureus (Isolation)	IS 5887 (Part 2): 1976 (RA 2009)	Qualitative (Present or Absent)/25 g
		Listeria monocytogens	FDA BAM Chapter 10 April 2011, IS 14988 (Part 1): 2001 , (RA 2012)	Qualitative (Present or Absent)/25 g
		Vibrio cholera	IS 5887 (Part 5): 1976 (RA 2005)	Qualitative (Present or Absent)/25 g
		Vibrio parahaemolyticus	IS 5887 (Part 5): 1976 (RA 2005)	Qualitative (Present or Absent)/25 g
9.	Fruits and Fruits Products (Orange, Mango Drink etc.)	Aerobic Microbial Count Standard Plate Count / Total Plate Count / Total Microbial Count	IS 5402: 2012	<10 cfu/g and above
		Yeast & Mould	IS 5403: 1999 (RA 2009)	<10 cfu/g and above
		Coliform Count	IS 5401 (Part 1): 2012	<10 cfu/g and above
		E.coli (Isolation)	IS 5887 (Part 1): 1976 (RA 2005)	Qualitative (Present or Absent)/25 g

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10.	Herbs, Spices and Condiments	Aerobic Microbial Count	IS 5402: 2012	<10 cfu/g and above
a.	(Chilly Powder Coriander Powder, Turmeric Powder etc.)	Standard Plate Count / Total Plate Count / Total Microbial Count		
		Yeast & Mould	IS 5403: 1999 (RA 2009)	<10 cfu/g and above
		Salmonella	IS 5887 (Part 3): 1999 (RA 2009)	Qualitative (Present or Absent)/25 g
11.	Honey and Honey Products	Aerobic Microbial Count	IS 5402: 2012	<10 cfu/g and above
		Standard Plate Count / Total Plate Count / Total Microbial Count		
		Yeast & Mould	IS 5403: 1999 (RA 2009)	<10 cfu/g and above
12.	Jams, Juices , Sauces and Concentrates (Sauces and Juices etc.)	Aerobic Microbial Count	IS 5402: 2012	<10 cfu/g and above
		Standard Plate Count / Total Plate Count / Total Microbial Count		
		Yeast & Mould	IS 5403: 1999 (RA 2009)	<10 cfu/g and above
		Coliform Count	IS 5401 (Part 1): 2012	<10 cfu/g and above
		E.coli (Isolation)	IS 5887 (Part 1): 1976 (RA 2005)	Qualitative (Present or Absent)/25 g
		E.coli (Enumeration)	IS 5887 (Part 1): 1976 (RA 2005)	<100 cfu/g and above

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	Jams, Juices , Sauces and Concentrates (Sauces and Juices etc.)	Heat Resistant Molds	Compendium of methods for the microbiological examination of food chap 21 Detection and enumeration of heat resistant molds pp 217-222	<10 cfu/g
		S.aureus (Enumeration)	IS 5887 (Part 2): 1976 (RA 2009)	<100 cfu/g and above
		S.aureus (Isolation)	IS 5887 (Part 2): 1976 (RA 2009)	Qualitative (Present or Absent)/25 g
		Salmonella	IS 5887 (Part 3): 1999 (RA 2009)	Qualitative (Present or Absent)/25 g
13.	Meat and Meat Products (Raw Meat, Curry, Biryani etc.)	Aerobic Microbial Count Standard Plate Count / Total Plate Count / Total Microbial Count	IS 5402: 2012	<10 cfu/g and above
		Yeast & Mould	IS 5403: 1999 (RA 2009)	<10 cfu/g and above
		Coliform Count	IS 5401 (Part 1): 2012 IS 5401 (Part 2): 2012	<10 cfu/g and above <3 MPN / g
		E.coli (Isolation)	IS 5887 (Part 1): 1976 (RA 2005)	Qualitative (Present or Absent)/25 g
		E.coli (Enumeration)	IS 5887 (Part 1): 1976 (RA 2005)	<100 cfu/g and above
		Salmonella	IS 5887 (Part 3): 199 (RA 2009)	Qualitative (Present or Absent)/25 g

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14.	Meat and Meat Products (Raw Meat, Curry, Biryani etc.)	S.aureus (Enumeration)	IS 5887 (Part 2): 1976 (RA 2009)	<100 cfu/g and above
		S.aureus (Isolation)	IS 5887 (Part 2): 1976 (RA 2009)	Qualitative (Present or Absent)/25 g
		Listeria monocytogens	FDA BAM chap 10 April 2011, IS 14988 (Part 1): 2001 , (RA 2012)	Qualitative (Present or Absent)/25 g
		Vibrio cholera	IS 5887 (Part 5): 1976 (RA 2005)	Qualitative (Present or Absent)/25 g
		Vibrio parahaemolyticus	IS 5887 (Part 5): 1976 (RA 2005)	Qualitative (Present or Absent)/25 g
		Enterobacteriaceae	IS/ISO 7402: 1993 (RA 2007)	<10 cfu/g and above
	Milk and Dairy Products (Ice – Cream , Chocolate etc.)	Aerobic Microbial Count	IS 5402: 2012	1 cfu/ml and above <10 cfu/g and above
		Standard Plate Count / Total Plate Count / Total Microbial Count		
		Yeast & Mould	IS 5403: 1999 (RA 2009)	1 cfu/ml and above <10 cfu/g and above
		Coliform Count	IS 5401 (Part 1): 2012	1 cfu/ml and above <10 cfu/g and above
		E.coli (Isolation)	IS 5887 (Part 1): 1976 (RA 2005)	Qualitative (Present or Absent)/25 g/ml

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	Milk and Dairy Products (Ice – Cream , Chocolate etc.)	E.coli (Enumeration)	IS 5887 (Part 1): 1976 (RA 2005)	<10 cfu/ml and above <100 cfu/g and above
		Salmonella	IS 5887 (Part 3): 199 (RA 2009)	Qualitative (Present or Absent)/25 g/ml
		S.aureus (Enumeration)	IS 5887 (Part 2): 1976 (RA 2009)	<10 cfu/ml and above <100 cfu/g and above
		S.aureus (Isolation)	IS 5887 (Part 2): 1976 (RA 2009)	Qualitative (Present or Absent)/25 g/ml
		Shigella Spp	IS 5887 (Part 7): 1999 (RA 2009)	Qualitative (Present or Absent)/25 g/ml
		Clostridia	IS 5887 (Part 4): 1999 (RA 2009)	Qualitative (Present or Absent)/25 g/ml
		Enterobacteriaceae	IS/ISO 7402: 1993 (RA 2007)	1 cfu/ml and above <10 cfu/g and above
		Thermophilic Count	IS 1479 (Part 3): 1997 (RA 2009)	1 cfu/ml and above <10 cfu/g
		Psychrophilic Bacteria	IS 1479 (Part 3): 1997 (RA 2009)	Qualitative (Present or Absent)/10 g or 10 ml
		Listeria monocytogens	FDA BAM chap 10 April 2011, IS 14988 (Part 1): 2001 , (RA 2012)	Qualitative (Present or Absent)/25 g or 25 ml

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15.	Poultry and Poultry Products (Fish Meal)	Aerobic Microbial Count	IS 5402: 2012	<10 cfu/g and above
		Yeast & Mould	IS 5403: 1999 (RA 2009)	<10 cfu/g and above
		Coliform Count	IS 5401 (Part 1): 2012	<10 cfu/g and above
		E.coli (Isolation)	IS 5887 (Part 1): 1976 (RA 2005)	Qualitative (Present or Absent)/25 g
		E.coli (Enumeration)	IS 5887 (Part 1): 1976 (RA 2005)	<100 cfu/g and above
		Salmonella	IS 5887 (Part 3): 199 (RA 2009)	Qualitative (Present or Absent)/25 g
		S.aureus (Enumeration)	IS 5887 (Part 2): 1976 (RA 2009)	<100 cfu/g and above
		S.aureus (Isolation)	IS 5887 (Part 2): 1976 (RA 2009)	Qualitative (Present or Absent)/25 g
		Listeria monocytogens	FDA BAM chap 10 April 2011, IS 14988 (Part 1): 2001 , (RA 2012)	Qualitative (Present or Absent)/25 g
		Vibrio cholera	IS 5887 (Part 5): 1976 (RA 2005)	Qualitative (Present or Absent)/25 g
		Vibrio parahemolyticus	IS 5887 (Part 5): 1976 (RA 2005)	Qualitative (Present or Absent)/25 g

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II. WATER				
1.	Drinking Water	E.coli	IS 1622: 1981 (RA 2009)	(<2 MPN to 1600 MPN) /100 ml
		Coliform	IS 1622: 1981 (RA 2009)	(<2 MPN to 1600 MPN) /100 ml
		Faecal Coliform	IS 1622: 1981 (RA 2009)	(<2 MPN to 1600 MPN) /100 ml
2.	Packaged Drinking Water	E.coli	IS 15185: 2002	Qualitative (Present or Absent)/100 ml to 250 ml
		Coliform	IS 15185: 2002	Qualitative (Present or Absent)/ 100 ml to 250 ml
		Faecal Streptococci	IS 15186: 2002	Qualitative (Present or Absent)/ 100 ml to 250 ml
		Staphylococcus aureus	IS 5887 (Part 2): 1976 (RA 2009)	Qualitative (Present or Absent)/ 100 ml to 250 ml
		Sulfite – Reducing Anaerobes	IS 13428: 2005 Annex C	Qualitative (Present or Absent)/ 50 ml
		Pseudomonas aeruginosa	IS 13428: 1999 (RA 2009)	Qualitative (Present or Absent)/ 100 ml to 250 ml

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	Packaged Drinking Water	Yeast and Mould	IS 5403: 1999 (RA 2009)	Qualitative (Present or Absent)/100 ml to 250 ml
		Aerobic Microbial Count at 37°C	IS 5402: 2012	1 cfu/ml and above
		Aerobic Microbial Count at 22°C	IS 5402: 2012	1 cfu/ml and above
		Salmonella	IS 5887 (Part 3): 1999 (RA 2009)	Qualitative (Present or Absent)/ 100 ml to 250 ml
		Shigella	IS 5887 (Part 7): 1999 (RA 2009)	Qualitative (Present or Absent)/ 100 ml to 250 ml
		Vibrio cholera	IS 5887 (Part 5): 1976 (RA 2005)	Qualitative (Present or Absent)/ 100 ml to 250 ml
		Vibrio parahaemolyticus	IS 5887 (Part 5): 1976 (RA 2005)	Qualitative (Present or Absent)/ 100 ml to 250 ml
3.	Packaged Natural Mineral Water	E.coli	IS 15185: 2002	Qualitative (Present or Absent)/ 100 ml to 250 ml
		Coliform	IS 15185: 2002	Qualitative (Present or Absent)/ 100 ml to 250 ml

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	Packaged Natural Mineral Water	Faecal Streptococci	IS 15186: 2002	Qualitative (Present or Absent)/ 100 ml to 250 ml
		Staphylococcus aureus	IS 5887 (Part 2): 1976 (RA 2009)	Qualitative (Present or Absent)/ 100 ml to 250 ml
		Sulfite – Reducing Anaerobes	IS 13428: 2005 Annexure C	Qualitative (Present or Absent)/ 50 ml
		Pseudomonas aeruginosa	IS 13428: 1999 (RA 2009)	Qualitative (Present or Absent)/ 100 ml to 250 ml
		Yeast and Mould	IS 5403: 1999 (RA 2009)	Qualitative (Present or Absent)/ 100 ml to 250 ml
		Salmonella	IS 5887 (Part 3): 1999 (RA 2009)	Qualitative (Present or Absent)/ 100 ml to 250 ml
		Shigella	IS 5887 (Part 7): 1999 (RA 2009)	Qualitative (Present or Absent)/ 100 ml to 250 ml
		Vibrio cholera	IS 5887 (Part 5): 1976 (RA 2005)	Present or Absent/ 100 ml to 250 ml
		Vibrio parahemolyticus	IS 5887 (Part 5): 1976 (RA 2005)	Qualitative (Present or Absent)/ 100 ml to 250 ml

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4.	Water for Processed Food Industry	Proteolytic Count	IS 4251: 1967 (RA 2009)	1 cfu / ml and above
		Lypolytic Count	IS 4251: 1967 (RA 2009)	1 cfu / ml and above
5.	Water Purifier UV – based Water Purifiers	Disinfection Efficacy Against Micrococcus luteus	IS 14724: 1999 Amd. 2 Clause 6.2.2.3 Annexure A	590128.19 to 3812730.19
III. COSMETICS & ESSENTIAL OILS				
1.	Cosmetics & Essential Oils	Aerobic Microbial Count	IS 14648: 2011	10 cfu/g or ml and above
		Yeast and Mould	IS 14648: 2011	10 cfu/g or ml and above
		Gram negative Pathogen	IS 14648: 2011	Qualitative (Present or Absent) / g or 10 g

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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.**