

Laboratory	Jagdamba Laboratories, 181, Padmavati Colony (B), New Sanganer Road, Shyam Nagar, Jaipur, Rajasthan		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Biological Testing	Issue Date	13.01.2015
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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 & AGRICULTURAL PRODUCTS				
1.	Bakery & Confectionery Products	Total Plate Count	IS 5402: 2012	≥ 10 cfu/gm ≥1 cfu/ ml
		Coliform Count	IS 5401 (Part1): 2012	≥ 10 cfu/gm ≥1 cfu/ ml
		Escherichia coli	IS 5887 (Part 1): 2009	≥ 10 cfu/gm ≥1 cfu/ ml 2 MPN/100 ml /gm to 542 MPN/100 ml /gm
		Salmonella	IS 5887 (Part 3): 2009	Absent/Present per 25 gm
		Fecal streptococci (Enterococci)	IS 5887 (Part 2): 2005	≥ 10 cfu/gm ≥1 cfu/ ml
		Yeast & Mould	IS 5403: 1999	≥ 10 cfu/gm ≥1 cfu/ ml
		Shigella	IS 5887 (Part 7): 2005	Absent/Present per 25 gm
		Bacillus cereus	IS 5887 (Part 6): 2005	Absent/Present per gm or ml
		Coagulase Positive (staphylococci)	IS 5887 (Part 8/Sec 1): 2005	Absent/Present per gm or ml
		Staphylococcus aureus	IS 5887 (Part 8/Sec 2): 2005	Present /Absent per 25 gm
		Clostridium perfringes & Clostridium botulinium	IS 5887 (Part IV): 2005	Present /Absent per 25 gm
		Listeria monocytogenes	IS 14988 (Part I & Part II): 2002	Present /Absent per 25 gm

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2.	Beverages (Alcoholic & Non Alcoholic)	Total Plate Count	IS 5402: 2012	≥ 10 cfu/gm ≥1 cfu/ ml
		Coliform Count	IS 5401 (Part1): 2012	≥ 10 cfu/gm ≥1 cfu/ ml
		Escherichia coli	IS 5887 (Part 1): 2009	≥ 10 cfu/gm ≥1 cfu/ ml 2 MPN/100 ml /gm to 542 MPN/100 ml /gm
		Salmonella	IS 5887 (Part 3): 2009	Absent/Present per 25 gm
		Fecal streptococci (Enterococci)	IS 5887 (Part 2): 2005	≥ 10 cfu/gm ≥1 cfu/ ml
		Yeast & Mould	IS 5403: 1999	≥ 10 cfu/gm ≥1 cfu/ ml
		Shigella	IS 5887 (Part 7): 2005	Absent/Present per 25 gm
		Bacillus cereus	IS 5887 (Part 6): 2005	Absent/Present per gm or ml
		Coagulase Positive (Staphylococci)	IS 5887 (Part 8/Sec 1): 2005	Absent/Present per gm or ml
		Staphylococcus aureus	IS 5887 (Part 8/Sec 2): 2005	Present /Absent per 25 gm
	Clostridium perfringes & Clostridium botulinium	IS 5887 (Part IV): 2005	Present /Absent per 25 gm	

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3.	Canned & Processed Foods	Total Plate Count	IS 5402: 2012	≥ 10 cfu/gm ≥1 cfu/ ml
		Coliform Count	IS 5401 (Part1): 2012	≥ 10 cfu/gm ≥1 cfu/ ml
		Escherichia coli	IS 5887 (Part 1): 2009	≥ 10 cfu/gm ≥1 cfu/ ml 2 MPN/100 ml /gm to 542 MPN/100 ml /gm
		Salmonella	IS 5887 (Part 3): 2009	Absent/Present per 25 gm
		Fecal streptococci (Enterococci)	IS 5887 (Part 2): 2005	≥ 10 cfu/gm ≥1 cfu/ ml
		Yeast & Mould	IS 5403: 1999	≥ 10 cfu/gm ≥1 cfu/ ml
		Shigella	IS 5887 (Part 7): 2005	Absent/Present per 25 gm
		Bacillus cereus	IS 5887 (Part 6): 2005	Absent/Present Per gm or ml
		Coagulase Positive (staphylococci)	IS 5887 (Part 8/Sec 1): 2005	Absent/Present Per gm or ml
		Staphylococcus aureus	IS 5887 (Part 8/Sec 2): 2005	Present /Absent per 25 gm
Clostridium perfringes & Clostridium botulinium	IS 5887 (Part IV): 2005	Present /Absent per 25 gm		

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4.	Cereals, Pulses & Cereal Products	Total Plate Count	IS 5402: 2012	≥ 10 cfu/gm ≥1 cfu/ ml
		Coliform Count	IS 5401 (Part1): 2012	≥ 10 cfu/gm ≥1 cfu/ ml
		Escherichia coli	IS 5887 (Part 1): 2009	≥ 10 cfu/gm ≥1 cfu/ ml 2 MPN/100 ml /gm to 542 MPN/100 ml /gm
		Salmonella	IS 5887 (Part 3): 2009	Absent/Present per 25 gm
		Fecal streptococci (Enterococci)	IS 5887 (Part 2): 2005	≥ 10 cfu/gm ≥1 cfu/ ml
		Yeast & Mould	IS 5403: 1999	≥ 10 cfu/gm ≥1 cfu/ ml
		Shigella	IS 5887 (Part 7): 2005	Absent/Present per 25 gm
		Bacillus cereus	IS 5887 (Part 6): 2005	Absent/Present cfu/gm or ml
		Coagulase Positive (staphylococci)	IS 5887 (Part 8/Sec 1): 2005	Absent/Present cfu/gm or ml
		Staphylococcus aureus	IS 5887 (Part 8/Sec 2): 2005	Present /Absent per 25 gm
Clostridium perfringes & Clostridium botulinium	IS 5887 (Part IV): 2005	Present /Absent per 25 gm		

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5.	Edible Oil & Fats	Total Plate Count	IS 5402: 20012	≥ 10 cfu/gm ≥1 cfu/ ml
		Coliform Count	IS 5401 (Part1): 2012	≥ 10 cfu/gm ≥1 cfu/ ml
		Escherichia coli	IS 5887 (Part 1): 2009	≥ 10 cfu/gm ≥1 cfu/ ml 2 MPN/100 ml /gm to 542 MPN/100 ml /gm
		Salmonella	IS 5887 (Part 3): 2009	Absent/Present per 25 gm
		Fecal streptococci (Enterococci)	IS 5887 (Part 2): 2005	≥ 10 cfu/gm ≥1 cfu/ ml
		Yeast & Mould	IS 5403: 1999	≥ 10 cfu/gm ≥1 cfu/ ml
		Shigella	IS 5887 (Part 7): 2005	Absent/Present per 25 gm
		Bacillus cereus	IS 5887 (Part 6): 2005	Absent/Present per gm or ml
		Coagulase Positive (staphylococci)	IS 5887 (Part 8/Sec 1): 2005	Absent/Present per gm or ml
	Staphylococcus aureus	IS 5887 (Part 8/Sec 2): 2005	Present /Absent per 25 gm	
6.	Fruit & Fruit Products	Total Plate Count	IS 5402: 2012	≥ 10 cfu/gm ≥1 cfu/ ml

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	Fruit & Fruit Products	Coliform Count	IS 5401 (Part1): 2012	≥ 10 cfu/gm ≥1 (cfu/ ml)
		Escherichia coli	IS 5887 (Part 1): 2009	≥ 10 cfu/gm ≥1 (cfu/ ml) 2 MPN/100 ml/gm to 542 MPN/100 ml/gm
		Salmonella	IS 5887 (Part 3): 2009	Absent/Present per 25 gm
		Fecal streptococci (Enterococci)	IS 5887 (Part 2): 2005	≥ 10 cfu/gm ≥1 (cfu/ ml)
		Yeast & Mould	IS 5403: 1999	≥ 10 cfu/gm ≥1 (cfu/ ml)
		Shigella	IS 5887 (Part 7): 2005	Absent/Present per 25 gm
		Bacillus cereus	IS 5887 (Part 6): 2005	Absent/Present per gm or ml
		Coagulase Positive (staphylococci)	IS 5887 (Part 8/Sec 1): 2005	Absent/Present per gm or ml
		Staphylococcus aureus	IS 5887 (Part 8/Sec 2): 2005	Present /Absent per 25 gm
	Clostridium perfringes & Clostridium botulinium	IS 5887 (Part IV): 2005	Present /Absent per 25 gm	
7.	Herbs, Spices & Condiments	Total Plate Count	IS 5402: 2012	≥ 10 cfu/gm ≥1 cfu/ ml

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	Herbs, Spices & Condiments	Coliform Count	IS 5401 (Part1): 2012	≥ 10 cfu/gm ≥1 cfu/ ml
		Escherichia coli	IS 5887 (Part 1): 2009	≥ 10 cfu/gm ≥1 cfu/ ml 2 MPN/100 ml /gm to 542 MPN/100 ml /gm
		Salmonella	IS 5887 (Part 3): 2009	Absent/Present per 25 gm
		Fecal streptococci (Enterococci)	IS 5887 (Part 2): 2005	≥ 10 cfu/gm ≥1 cfu/ ml
		Yeast & Mould	IS 5403: 1999	≥ 10 cfu/gm ≥1 cfu/ ml
		Shigella	IS 5887 (Part 7): 2005	Absent/Present per 25 gm
		Bacillus cereus	IS 5887 (Part 6): 2005	Absent/Present per gm or ml
		Coagulase Positive (staphylococci)	IS 5887 (Part 8/Sec 1): 2005	Absent/Present per gm or ml
		Staphylococcus aureus	IS 5887 (Part 8/Sec 2): 2005	Present /Absent per 25 gm
	Clostridium perfringes & Clostridium botulinium	IS 5887 (Part IV): 2005	Present /Absent per 25 gm	
8.	Milk & Milk Products	Total Plate Count	IS 5402: 2012	≥ 10 cfu/gm ≥1 cfu/ ml

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	Milk & Milk Products	Coliform Count	IS 5401(Part1):2012	≥ 10 cfu/gm ≥1 cfu/ ml
		Escherichia coli	IS 5887 :2009 (Part 1)	≥ 10 cfu/gm ≥1 cfu/ ml 2 MPN/100 ml /gm to 542 MPN/100 ml /gm
		Salmonella	IS 5887: 2009 (Part 3)	Absent/Present per 25 gm
		Fecal streptococci (Enterococci)	IS 5887 (Part 2): 2005	≥ 10 cfu/gm ≥1 cfu/ ml
		Yeast & Mould	IS 5403: 1999	≥ 10 cfu/gm ≥1 cfu/ ml
		Shigella	IS 5887 (Part 7): 2005	Absent/Present per 25 gm
		Bacillus cereus	IS 5887 (Part 6): 2005	Absent/Present per gm or ml
		Coagulase Positive (staphylococci)	IS 5887 (Part 8/Sec 1): 2005	Absent/Present per gm or ml
		Staphylococcus aureus	IS 5887 (Part 8/Sec 2): 2005	Present /Absent per 25 gm
	Clostridium perfringes & Clostridium botulinium	IS 5887 (Part IV): 2005	Present /Absent per 25 gm	
9.	Meat & Meat Products	Total Plate Count	IS 5402: 20012	≥ 10 cfu/gm ≥1 cfu/ ml

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	Meat & Meat Products	Coliform Count	IS 5401 (Part1): 2012	≥ 10 cfu/gm ≥1 cfu/ ml
		Escherichia coli	IS 5887 (Part 1): 2009	≥ 10 cfu/gm ≥1 cfu/ ml 2 MPN/100 ml /gm to 542 MPN/100 ml /gm
		Salmonella	IS 5887 (Part 3): 2009	Absent/Present per 25 gm
		Fecal streptococci (Enterococci)	IS 5887 (Part 2): 2005	≥ 10 cfu/gm ≥1 cfu/ ml
		Yeast & Mould	IS 5403: 1999	≥ 10 cfu/gm ≥1 cfu/ ml
		Shigella	IS 5887 (Part 7): 2005	Absent/Present per 25 gm
		Bacillus cereus	IS 5887 (Part 6): 2005	Absent/Present per gm or ml
		Coagulase Positive (staphylococci)	IS 5887 (Part 8/Sec 1): 2005	Absent/Present per gm or ml
		Staphylococcus aureus	IS 5887 (Part 8/Sec 2): 2005	Present /Absent per 25 gm
	Clostridium perfringes & Clostridium botulinium	IS 5887 (Part IV): 2005	Present /Absent per 25 gm	
10.	Poultry & Poultry Products	Total Plate Count	IS 5402: 2012	≥ 10 cfu/gm ≥1 (cfu/ ml)

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	Poultry & Poultry Products	Coliform Count	IS 5401(Part1):2012	≥ 10 cfu/gm ≥1 cfu/ ml
		Escherichia coli	IS 5887 (Part 1): 2009	≥ 10 cfu/gm ≥1 cfu/ ml 2 MPN/100 ml /gm to 542 MPN/100 ml /gm
		Salmonella	IS 5887 (Part 3): 2009	Absent/Present per 25 gm
		Fecal streptococci (Enterococci)	IS 5887 (Part 2): 2005	≥ 10 cfu/gm ≥1 cfu/ ml
		Yeast & Mould	IS 5403: 1999	≥ 10 cfu/gm ≥1 cfu/ ml
		Shigella	IS 5887 (Part 7): 2005	Absent/Present per 25 gm
		Bacillus cereus	IS 5887 (Part 6): 2005	Absent/Present per gm or ml
		Coagulase Positive (staphylococci)	IS 5887 (Part 8/Sec 1): 2005	Absent/Present per gm or ml
		Staphylococcus aureus	IS 5887 (Part 8/Sec 2): 2005	Present /Absent per 25 gm
		Clostridium perfringes & Clostridium botulinium	IS 5887 (Part IV): 2005	Present /Absent per 25 gm
11.	Vegetable & Vegetable Products	Total Plate Count	IS 5402: 2012	≥ 10 cfu/gm ≥1 cfu/ ml
		Coliform Count	IS 5401 (Part1): 2012	≥ 10 cfu/gm ≥1 cfu/ ml

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	Vegetable & Vegetable Products	Escherichia coli	IS 5887 (Part 1): 2009	≥ 10 cfu/gm ≥1 (cfu/ml) 2 MPN/100 ml /gm to 542 MPN/100 ml /gm
		Salmonella	IS 5887 (Part 3): 2009	Absent/Present per 25 gm
		Fecal streptococci (Enterococci)	IS 5887 (Part 2): 2005	≥ 10 cfu/gm ≥1 cfu/ml
		Yeast & Mould	IS 5403: 1999	≥ 10 cfu/gm ≥1 cfu/ml
		Shigella	IS 5887 (Part 7): 2005	Absent/Present per 25 gm
		Bacillus cereus	IS 5887 (Part 6): 2005	Absent/Present per gm or ml
		Coagulase Positive (staphylococci)	IS 5887 (Part 8/Sec 1): 2005	Absent/Present per gm or ml
		Staphylococcus aureus	IS 5887 (Part 8/Sec 2): 2005	Present /Absent per 25 gm
		Clostridium perfringes & Clostridium botulinium	IS 5887 (Part IV): 2005	Present /Absent per 25 gm
II.	WATER			
1.	Drinking Water/Ground Water/Surface Water	Total Plate Count	IS 5402: 2002	≥1 cfu/ml

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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
	Drinking Water/Ground Water/Surface Water	Aerobic Microbial Count	IS 1622: 2005	≥1 cfu/ ml
		Coliform Count	IS 5401 (Part 1): 2012 IS 1622: 2005	≥1 cfu/ ml MPN Index/100 ml 2-542 MPN/100 ml
		Escherichia coli	IS 15185: 2002 IS 1622: 2005	Present/ Absent per 250 ml 2-542 MPN/100 ml
		Salmonella	IS 5887 (Part 3): 2005 IS 15187: 2002	Present/ Absent per 250 ml
		Staphylococcus aureus	IS 5887 (Part 2): 2002	Present/ Absent per 250 ml
		Shigella	IS 5887 (Part 7): 2005	Present/ Absent per 250 ml
		Pseudomonas aeruginosa	IS 13428: 2005 (Annexure C)	Present/ Absent per 250 ml
		Fecal Streptococci	IS 1622: 2003 IS 15186: 2002	Present/ Absent per 250 ml
2.	Water For Processed Food Industry	Thermophilic Bacteria	IS 4251: 2009 (Annexure B)	≥1 cfu/ ml
		Lipolytic Bacteria	IS 4251: 2009(Annexure A)	≥1 cfu/ ml

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	Water For Processed Food Industry	Proteolytic Bacteria	IS 4251: 2009 (Annexure A)	≥1 cfu/ ml
III. DRUGS & PHARMACEUTICALS				
1.	Antibiotics/ Drug Intermediates & Raw Materials/Vitamins	Total Aerobic microbial count/ Viable bacterial count Yeast & mould count Escherichia coli Coliforms Pseudomonas aeruginosa Staphylococcus aureus Clostridia perfringes	IP Appendix 9.4:2 BP Appendix XIVB (EP 2.6.13) USP <61>:2014	≥ 10 cfu/gm ≥1 cfu/ ml ≥ 10 cfu/gm ≥1 (cfu/ ml) ≥ 10 cfu/gm ≥1 cfu/ ml ≥ 10 cfu/gm ≥1 cfu/ ml ≥ 10 cfu/gm ≥1 cfu/ ml ≥ 3 MPN/g/ml to 1000 MPN/g/ml
2.	Herbal Drugs/ Ayurveda Drugs	Aerobic Bacteria	Protocol for testing of Ayurvedic, Siddha & Unani Medicines(App . 2.4.2, 2.4.3) API Vol. I Part II nd 2.4, 2.4.1 :2007	≥ 10 cfu/gm ≥1 (cfu/ ml)

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	Herbal Drugs/ Ayurveda Drugs	Yeast & Mould		≥ 10 cfu/gm ≥1 (cfu/ ml)
		Escherichia coli		Present/ Absent per ml or gm
		Salmonella		Present/ Absent per ml or gm
		Staphylococcus		Present/ Absent per ml or gm
		Other Enterobacteria		≥ 10 cfu/gm ≥1 cfu/ ml
		P.aeruginosa		Present/ Absent per ml or gm
IV. COSMETICS & ESSENTIAL OILS				
1.	Skin Creams	Total Plate Count Gram Negative Bacteria	IS 6608: 1978 (RA 2004)	≥ 10 cfu/gm ≥1 cfu/ ml
2.	Liquid foundation make up	Microbiological Examination	IS 14318: 1996	≥ 10 cfu/gm ≥1 cfu/ ml
3.	Hair oils	Microbiological Examination	IS 7123: 1993	Minimum 10 micro-organisms per gm
4.	Shampoos,Powders	Total Microbial Count	IS 14648: 1999 (RA 2011)	≥ 10 cfu/gm ≥1 cfu/ ml
		Yeast & Mould		≥ 10 cfu/gm ≥1 cfu/ ml

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5.	Skin Creams and Lotions	Total Microbial Count	IS 14648: 1999 (RA 2011)	≥ 10 cfu/gm ≥1 cfu/ ml
		Yeast & Mould		≥ 10 cfu/gm ≥1 cfu/ ml
		Gram Negative Bacteria		Present/ Absent per gm
		S.aureus		Present/ Absent per gm
		C.albicans		Present/ Absent per gm
6.	Eye Products	Total Microbial Count	IS 14648: 1999 (RA 2011)	≥ 10 cfu/gm ≥1 cfu/ ml
		Yeast & Mould		≥ 10 cfu/gm ≥1 cfu/ ml
		Gram Negative Bacteria		Present/ Absent per ml or gm

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