

Laboratory	ITL Labs Private Limited, B-283, 284, Mangol Puri Industrial Area, Phase-1, Delhi		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Biological Testing	Issue Date	24.01.2015
Certificate Number	T-0603	Valid Until	23.01.2017
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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.	Milk & Milk products	Total plate count per mL or g	IS 5402: 2012	≥ 1 CFU
		Coliform count per mL or g	IS 5401 (Part 1): 2002	≥ 10 CFU
		Coliform count per mL or g	IS 5401 (Part 2): 2012	≥ 0.18 MPN Index
		Yeast or Mould per mL or per g	IS 5403: 1999 (RA 2005)	≥ 10 CFU
		Staphylococcus aureus count (Coagulase positive) 0.1 g or g or mL	IS 5887 (Part 8/sec 1): 2002 (RA 2012)	≥ 10 CFU
		Escherichia coli 0.1g or g or mL	IS 5887 (Part 1): 1976 (RA 2005)	Qualitative (Present / Absent)
		Escherichia coli 0.1g or g or mL	IS 5887 (Part I): 1976 (RA 2005)	≥ 10 CFU
		Escherichia coli 0.1g or g or mL	IS 5887 (Part I): 1976 (RA 2005)	≥ 0.18 MPN Index
		Salmonella per 25 g	IS 5887 (Part 3): 1999 (RA 2005)	Qualitative (Present / Absent)
		Salmonella per 25 g	IS 5887 (Part 3): 1999 (RA 2005)	Qualitative (Present / Absent)
		Bacterial Spores	IS 12176: 1987 (RA 2003) Appendix A	≥ 1 CFU
			IS 4238: 1967 (RA 1999)	≥ 10 CFU

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	Milk & Milk products	Listeria monocytogenes	IS 14988 (Part 1): 2001 (RA 2012)	Qualitative (Present / Absent)
			IS 14988 (Part 2): 2002 (RA 2012)	Qualitative (Present / Absent)
2.	Milk powder	Bacterial count	IS 5402: 2012	≥ 10 CFU/g
		Coliform count per 0.1 g	IS 5401 (Part 1): 2002 IS 5401 (Part 2): 2012	Qualitative (Present / Absent)
		Staphylococcus aureus per 0.1 g	IS 5887 (Part 2): 1976 (RA 2005)	Qualitative (Present / Absent)
3.	Condensed Milk, Partly Skimmed And Skimmed Condensed Milk	Salmonella per 25 g	IS 5887 (Part 3): 1999 (RA 2005)	Qualitative (Present / Absent)
		Shigella per 25 g	IS 5887 (Part 7): 1999 (RA 2005)	Qualitative (Present / Absent)
		Coliform count per g	IS 5401 (Part 1): 2002 IS 5401 (Part 2): 2012	Qualitative (Present / Absent)
		Yeast or Mould per mL or per g	IS 5403: 1999 (RA 2005)	≥ 10 CFU/g ≥ 1 CFU/mL
		Staphylococcus aureus count (Coagulase positive)	IS 5887 (Part 2): 1976 (RA 2005)	Qualitative (Present / Absent)
		Escherichia coli per g	IS 5887 (Part 1): 1976 (RA 2005)	Qualitative (Present / Absent)

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4.	Sweetened ultra high temperature (UHT) Treated condensed milk	Bacterial spore	IS 12176: 1987 (RA 2003) Appendix A	≥ 10 CFU/g
		Coliform count per g	IS 5401 (Part 1): 2002 IS 5401 (Part 2): 2012	Qualitative (Present / Absent)
		Coagulase positive staphylococcus aureus	IS 5887 (Part 2): 1976 (RA 2005)	Qualitative (Present / Absent)
5.	Skimmed Milk Powder	Bacterial count per g	IS 5402: 2012	≥ 1 CFU
		Coliform count per 0.1 g	IS 5401 (Part 1): 2002	Qualitative (Present / Absent)
		Staphylococcus aureus per 0.1g	IS 5887 (Part 2): 1976 (RA 2005)	Qualitative (Present / Absent)
		Salmonella per 25 g	IS 5887 (Part 3): 1999 (RA 2005)	Qualitative (Present / Absent)
		Shigella per 25g	IS 5887 (Part 7): 1999 (RA 2005)	Qualitative (Present / Absent)
6.	Partly Skimmed Milk Powder	Bacterial count per g	IS 5402: 2012	≥ 1 CFU
		Coliform count per 0.1g	IS 5401 (Part 1): 2002 IS 5402 : 2012	Qualitative (Present / Absent)
7.	Bakery Products	Total Plate Count per g	IS 5402: 2012	≥ 10 CFU
		Coliform count per g	IS 5401 (Part 1): 2002	≥ 10 CFU
		Yeast & mould count per g	IS 5403: 1999 (RA 2005)	≥ 10 CFU

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	Bakery Products	Escherichia coli per 0.1g or 1g	IS 5887 (Part I): 1976 (RA 2005)	Qualitative (Present / Absent)
		Escherichia coli per g	IS 5887 (Part I): 1976 (RA 2005)	≥ 10 CFU
8.	Beverages (Alcoholic & Non Alcoholic)	Total plate count per mL	IS 5402: 2012	≥ 1 CFU
		Coliform count per 100 mL	IS 5401 (Part 1): 2002	Qualitative (Present / Absent)
		Yeast and mould count per mL or 100 mL	IS 5403: 1999 (RA 2005)	≥ 1 CFU
9.	Fruit Products (Canned & Processed)	Incubation test for microbiological activity	IS 2860: 1964 (RA 2008)	Qualitative (Pass / Fail)
10.	Cereal Products	Total Plate count per g	IS 5402: 2012	≥ 10 CFU
		Coliform count per g	IS 5401 (Part 1): 2002	≥ 10 CFU
		Coliform per g	IS 5401 (Part 2): 2012	≥ 0.18 MPN Index
		Yeast and mould count per g	IS 5403: 1999 (RA 2005)	≥ 1 CFU
11.	Vegetable Products	Incubation test	IS 2860: 1964 (RA 2008)	Qualitative (Present / Absent)
		Coliform count per g or mL	IS 5401 (Part 1): 2002	≥ 1 CFU/mL ≥ 10 CFU/g
		Coliform per g or mL	IS 5401 (Part 2): 2012	≥ 0.18 MPN Index
		Yeast and mould count per g	IS 5403: 1999 (RA 2005)	≥ 10 CFU

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	Vegetable Products	Yeast & mould count per mL	IS 5403: 1999 (RA 2005)	≥ 1 CFU
		Total Plate count per g	IS 5402: 2012	≥ 10 CFU
		Total Plate count per mL	IS 5402: 2012	≥ 1 CFU
		Escherichia coli per g or 0.1g or per mL	IS 5887 (Part 1): 1976 (RA 2005)	Qualitative (Present / Absent)
		Escherichia coli per g	IS 5887 (Part 1): 1976 (RA 2005)	≥ 10 CFU
		Staphylococcus aureus count (Coagulase Positive) per g or per mL	IS 5887 (Part 2): 1976 (RA 2005)	Qualitative (Present / Absent)
		Staphylococcus aureus count (Coagulase Positive) per g or 0.1 g	IS 5887 (Part 8/Sec I): 2002 (RA 2012)	≥ 10 CFU
		Yeast and mould count/g or mL	IS 5403: 1999	≥ 10 CFU ≥ 1 CFU
12	Food Product (Raw, Processed, Semi Processed, Packed & Ready to Eat Food)	Total plate count per g	IS 5402: 2012	≥ 10 CFU
		Escherichia coli Count per g or 0.1 g	IS 5887 (Part 1): 1976 (RA 2005)	Qualitative (Present / Absent)
		Salmonella per 25g	IS 5887 (Part 3): 1999 (RA 2005)	Qualitative (Present / Absent)
		S. aureus per g	IS 5887 (Part 2): 1976 (RA 2005)	Qualitative (Present / Absent)

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	Food Product (Raw, Processed, Semi Processed, Packed & Ready to Eat Food)	Coliform count per g or per mL	IS 5401 (Part 1): 2002	≥ 10 CFU/g ≥ 1 CFU/mL
		Coliform count per g	IS 5401 (Part 2): 2002	≥ 0.18 MPN Index
		Bacillus cereus per g	IS 5887 (Part 6): 2012	Qualitative (Present / Absent)
		Yeast & Mold count per g or mL	IS 5403: 1999 (RA 2005)	≥ 10 CFU/g ≥ 1 CFU/mL
		Listeria monocytogenes per g or 10 g or 25g	IS 14988 (Part 1): 2001 (RA 2012) IS 14988 (Part 2): 2002 (RA 2012)	Qualitative (Present / Absent)
13.	Ready to eat Protein rich extruded foods	Total bacterial count per g	IS 5402: 2012	≥ 10 CFU
		Coliform count per g	IS 5401: 2002	≥ 10 CFU
		Salmonella per 25 g	IS 5887 (Part 3): 1976 (RA 2005)	Qualitative (Present / Absent)
14.	Protein rich food supplements for infants and Preschool children	Total bacterial count per g	IS 5402: 2012	≥ 10 CFU
		Coliform count per g	IS 5401: 2002	≥ 10 CFU
II. DRUGS AND PHARMACEUTICALS				
1.	Amikacin Injection	Assay	IP 2014 Vol. 1, 2.2.10 Page No. 1028 to 1029	50 % to 150 % of label claim
2.	Erythromycin Tablets	Assay	IP 2014 Vol. 1, 2.2.10 Page No. 1028 to 1029	50 % to 150 % of label claim

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3.	Erythromycin Stearate Tablets	Assay	IP 2014 Vol. 1, 2.2.10 Page No. 1028 to 1029	50 % to 150 % of label claim
4.	Gentamicin injection	Assay	IP 2014 Vol. 1, 2.2.10 Page No. 1028 to 1029	50 % to 150 % of label claim
5.	Gentamicin Eye Drop	Assay	IP 2014 Vol. 1, 2.2.10 Page No. 1028 to 1029	50 % to 150 % of label claim
6.	Neomycin Eye Ointment	Assay	IP 2014 Vol. 1, 2.2.10 Page No. 1028 to 1029	50 % to 150 % of label claim
GENERAL TESTS				
1.	Pharmaceutical Preparation	Efficacy of Antimicrobial Preservatives / Antimicrobial Effectiveness Test	IP 2014, Page No. 27 to 33 BP 2014, Page No. A476 to A478 USP 2014, Page No. 52 to 54	Qualitative (Complies/does not comply)
2.	Parental preparation, transfusion, infusion & Medical Devices	Bacterial Endotoxins (Gel clot method)	IP 2014, Page No. 30 to 31 BP 2014, Page No. A390 to A392 USP 2014, Page No. 92 to 94	Qualitative (Less than or more than specified limit)
		Bacterial Endotoxins (Gel clot method)	IP 2014, Page No. 30 to 32 BP 2014, Page No. A390 to A392 USP 2014, Page No. 94 to 95	0.125 to 22.0
3.	Parental, Ophthalmic preparation, Blood bag, Sutures, Surgical dressing cotton and medical devices	Sterility	IP 2014, Page No. 59 to 66 USP 2014, Page No. 71 to 77	Qualitative (Complies/does not comply)

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4.	Non Sterile Pharmaceutical Products	Total viable aerobic count per g or mL	IP 2014, Page No. 38 to 42 BP 2014, Page No. A466 to A470 USP 2014, Page No. 57 to 62	1 CFU/mL to 10 ⁵ CFU/mL 10 CFU/g to 10 ⁵ CFU/g
		Escherichia coli per g or mL	IP 2014, Page No. 42 to 45 BP 2014, Page No. A463 to A470 USP 2014, Page No. 64	Qualitative (Present / Absent)
		Salmonella per g or mL or 10 g or 10 mL	IP 2014, Page No. 45 BP 2014, Page No. A463 to 464 USP 2014, Page No. 64 to 65	Qualitative (Present / Absent)
		Pseudomonas aeruginosa per g or mL	IP 2014, Page No. 46 BP 2014, Page No. A464 USP 2014, Page No. 65	Qualitative (Present / Absent)
		Shigella per g or mL	IP 2014, Page No. 45	Qualitative (Present / Absent)
		Staphylococcus aureus per g or mL	IP 2014, Page No. 46 BP 2014, Page No. A464 USP 2014, Page No. 65	Qualitative (Present / Absent)
		Bile Tolerant Gram – Negative Bacteria per g or mL	IP 2014, Page No. 45 BP 2014, Page No. A462 to A463 USP 2014, Page No. 64	Qualitative (Present / Absent)
		Clostridia per g or mL	IP 2014, Page No. 46 BP 2014, Page No. A462 to A463 USP 2014, Page No. 65	Qualitative (Present / Absent)
		Candida albicans per g or mL	IP 2014, Page No. 46 BP 2014, Page No. A464 USP 2014, Page No. 65	Qualitative (Present / Absent)

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III. WATER				
1.	Water purifier with Ultra violet Disinfection	Microbiological test for UV water Purifier (Percent Disinfection)	IS 14724: 1999	1% to 100 %
2.	Water for process food industry	Coliform bacteria MPN index per 100mL	IS 1622: 1981 (RA 1996)	≥ 1 MPN Index
		Standard plate count per mL	IS 1622: 1981 (RA 1996)	≥ 1 CFU
		Proteolytic and lipolytic organisms Combined count per mL	IS 4251: 1967 (RA 1977) Appendix A	1CFU/mL to 10 CFU
		Thermophilic Bacteria Count per mL	IS 4251: 1967 (RA 1977)	Qualitative (Present / Absent)
3.	Drinking water	Coliform bacteria MPN index per 100 mL	IS 1622: 1981 (RA 1996)	≥ 1 MPN Index
		Faecal Coliform per 100 mL	IS 1622: 1981 (RA 1996)	Qualitative (Present / Absent)
		Escherichia coli per 100 mL	IS 1622: 1981 (RA 1996) IS 10500: 2011 (RA 2012)	Qualitative (Present / Absent)
		Coliform bacteria per 100 mL	IS 10500: 2011 (RA 2012)	Qualitative (Present / Absent)

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4.	Packaged Drinking Water (other than Packaged Natural Mineral Water)	Escherichia coli (or thermo tolerant bacteria) per 250 mL	IS 15185 : 2002 IS 5887 (Part I) : 1976 (RA 2005)	(Qualitative (Present / Absent)
		Coliform bacteria per 250 mL	IS 15185: 2002 IS 5401(Part 1) : 2002	Qualitative (Present / Absent)
		Faecal streptococci per 250 mL	IS 15186: 2002 IS 5887 (Part 2): 1976 (RA 2005)	Qualitative (Present / Absent)
		Staphylococcus aureus per 250 mL	IS 5887 (Part 2): 1976 (RA 2005)	Qualitative (Present / Absent)
		Sulphite reducing anaerobes per 50 mL	IS 13428: 2005 Annexure C	Qualitative (Present / Absent)
		Pseudomonas aeruginosa per 250 mL	IS 13428: 2005 Annexure D	Qualitative (Present / Absent)
		Aerobic microbial count per mL a) 37°C for 24 hrs b) 22°C For 72 hrs	IS 5402: 2012	1CFU/mL to 1000 CFU/mL
		Yeast & mould per 250 mL	IS 5403: 1999 (RA 2005)	Qualitative (Present / Absent)
		Salmonella spp. per 250 mL	IS 15187: 2002 IS 5887 (Part 3): 1999 (RA 2005)	Qualitative (Present / Absent)
Shigella spp. per 250 mL	IS 5887 (Part 7): 1999 (RA 2005)	Qualitative (Present / Absent)		

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	Packaged Drinking Water (other than Packaged Natural Mineral Water)	Vibrio cholerae per 250 mL	IS 5887 (Part 5): 1976	Qualitative (Present / Absent)
		Vibrio parahaemolyticus per 250 mL	IS 5887 (Part 5): 1976 (RA 2005)	Qualitative (Present / Absent)
5.	Packaged Natural Mineral Water	Escherichia coli (or thermo tolerant bacteria) per 250mL	IS 15185: 2002 IS 5887 (Part 1): 1976 (RA 2005)	Qualitative (Present / Absent)
		Coliform bacteria per 250 mL	IS 15185: 2002 IS 5401 (Part 1): 2002	Qualitative (Present / Absent)
		Pseudomonas aeruginosa per 250 mL	IS 13428: 2005 Annexure D	Qualitative (Present / Absent)
		Yeast & mould per 250 mL	IS 5403: 1999 (RA 2005)	Qualitative (Present / Absent)
		Salmonella spp. per 250 mL	IS 15187: 2002 IS 5887 (Part 3): 1999 (RA 2005)	Qualitative (Present / Absent)
		Shigella spp. per 250 mL	IS 5887 (Part 7): 1999 (RA 2005)	Qualitative (Present / Absent)
		Vibrio cholera per 250 mL	IS 5887 (Part 5): 1976 (RA 2005)	Qualitative (Present / Absent)
		Vibrio parahaemolyticus per 250 mL	IS 5887 (Part 5): 1976 (RA 2005)	Qualitative (Present / Absent)
6.	Purified water	Escherichia coli per 100 mL	IP 2014, Page No. 42-45	Qualitative (Present / Absent)
		Coliform per 100 mL	IS 1622: 1981	Qualitative (Present / Absent)

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	Purified water	Salmonella per 100 mL	IP -2014, Page No. 45	Qualitative (Present / Absent)
		Pseudomonas aeruginosa per 100 mL	IP -2014, Page No. 46	Qualitative (Present / Absent)
		Staphylococcus aureus per 100 mL	IP -2014, Page No. 46	Qualitative (Present / Absent)
		Shigella per 100 mL	IP 2014, Page No. 45	Qualitative (Present / Absent)
		Clostridia per 100 mL	IP 2014, Page No. 46	Qualitative (Present / Absent)
		Total microbial count per mL	IP 2014, Page No. 38-42	1CFU/mL to 10 ³ CFU/mL
7.	Potable water	Escherichia coli per 100 mL	IP 2014, Page No. 42-45	Qualitative (Present / Absent)
		Coliform per 100 mL	IS 1622: 1981(RA 1996)	Qualitative (Present / Absent)
		Salmonella per 100mL	IP 2014, Page No. 45	Qualitative (Present / Absent)
		Pseudomonas aeruginosa per 100 mL	IP 2014, Page No. 46	Qualitative (Present / Absent)
		Staphylococcus aureus per 100 mL	IP 2014, Page No. 46	Qualitative (Present / Absent)
		Total microbial count per mL	IP 2014, Page No. 38 to 42	1 CFU /mL to 10 ³ CFU / mL

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IV. ENVIRONMENT AND POLLUTION				
1.	Bio-burden estimation of classified & Non classified area	Total plate count	USP 2014, Page No. 425 to 427	≥ 1 CFU / plate
		Yeast & Mold count	USP 2014, Page No. 425 to 427	≥ 1 CFU / plate
2.	Swab	Total plate count per swab	IS 5402: 2012	≥ 1 CFU / plate
		Coliform per swab	IS 5401: 2002	≥ 1 CFU / plate
		Staphylococcus aureus per swab	IS 5887 (Part 8/Sec II): 2002 (RA 2012)	≥ 1 CFU / plate
V. BIOCIDES				
1.	Disinfectant fluid (Phenolic type)	Rideal Walker coefficient	IS 1061: 1997 (RA 2005)	1 to 25
		Staphylococcal coefficient	IS 1061: 1997 (RA 2005)	1 to 25
2.	Disinfectant cum deodorizing fluid	Rideal Walker coefficient	IS 10758: 1983 (RA 2002)	1 to 25
		Staphylococcal coefficient	IS 10758: 1983 (RA 2002)	1 to 25
3.	Disinfectant & Antiseptics	Effectiveness against E.coli	USP 2014, Page No. 781 to 785	2 % to 100 % of initial inoculation
		Effectiveness against Staphylococcus aureus	USP 2014, Page No. 781 to 785	2 % to 100 % of initial inoculation
		Effectiveness against Pseudomonas aeruginosa	USP 2014, Page No. 781 to 785	2 % to 100 % of initial inoculation
		Effectiveness against Micrococcus luteus	USP 2014, Page No. 781 to 785	2 % to 100 % of initial inoculation

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	Disinfectant & Antiseptics	Effectiveness against Staphylococcus epidermidis	USP 2014, Page No. 781 to 785	2 % to 100 % of initial inoculation
		Effectiveness against Candida albicans	USP 2014, Page No. 781 to 785	2 % to 100 % of initial inoculation
		Effectiveness against Bacillus subtilis	USP 2014, Page No. 781 to 785	2 % to 100 % of initial inoculation
VI.	COSMETICS & ESSENTIAL OILS			
1.	Cosmetics {Shampoo, Skin powder, Skin cream and lotions, Baby products, Eye products (products to be used in and around the eyes), Lip care, tooth paste and tooth powder}	Total Viable count	IS 14648: 2011	1 CFU/mL to 10 ⁴ CFU/mL 10 CFU/g to 10 ⁴ CFU/g
		E.coli per g or mL		Qualitative (Present / Absent)
		Pseudomonas aeruginosa per g or mL		Qualitative (Present / Absent)
		Staphylococcus aureus per g or mL		Qualitative (Present / Absent)
		Candida albicans per g or mL		Qualitative (Present / Absent)

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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**.