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| Laboratory | Bureau Veritas Consumer Products Services (India) Private Limited, F2, Thiru-Vi-Ka Industrial Estate, Phase-III, Ekkattuthangal, Guindy, Chennai, Tamil Nadu | | |
| Accreditation Standard | ISO/IEC 17025: 2005 | | |
| Discipline | Biological Testing | Issue Date | 01.12.2014 |
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|--------------|---------------------------------------|--------------------------------|--|---|
|--------------|---------------------------------------|--------------------------------|--|---|

I. FOOD AND AGRICULTURAL PRODUCTS

| | | | |
|---|--|--|--|
| 1. Fruit & Vegetable Products, Meat and Meat Products, Bakery Products, Sea Food, Coffee, Tea, Snacks, Dairy Products, Nuts, Cereals and Pulses, Beverages, Egg Products, Jams & Juices, Spices & Condiments | Total plate count | IS 5402: 2012 (RA 2012) ISO 4833-1:2013 ISO 4833-2:2013 | ≥1CFU/ml or ≥10 CFU/g |
| | Yeast and Mould | IS 5403: 1999 (RA 2009) FDA BAM 2001 8 th Edn. Ch. 18 | ≥1CFU/ml or ≥10 CFU/g |
| | Detection & Enumeration of Escherichia coli | IS 5887 (Part 1) : 1976 (RA 2009) | ≥1CFU/ml or ≥10 CFU/g (0.30 to 110) MPN/g or ml |
| | | ISO 16649-2:2001 | Qualitative ≥1CFU/ml or ≥10 CFU/g |
| | Total Coliforms | IS 5401 (Part 1): 2012 (RA 2012) FDA BAM 2002 8 th Edn. Ch. 4 IS 5401 (Part 2): 2012 (RA 2012) FDA BAM 2002 8 th Edn. Ch. 4 | ≥1CFU/ml or ≥10 CFU/g (0.30 to 110) MPN/g or ml |
| | Thermotolerant Coliforms/ Faecal Coliforms | FDA BAM 2002 8 th Edn. Ch. 4 | (0.30 to 110) MPN/g or ml |
| | Detection & Enumeration of Staphylococcus aureus | IS 5887 (Part 8/Sec 1): 2002 (RA 2012) BS EN ISO 6888-1:1999 IS 5887 (Part 2): 1976 (RA 2009) | ≥1CFU/ml or ≥10 CFU/g |

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| | Fruit & Vegetable Products, Meat and Meat Products, Bakery Products, Sea Food, Coffee, Tea, Snacks, Dairy Products, Nuts, Cereals and Pulses, Beverages, Egg Products, Jams & Juices, Spices & Condiments | Detection of Salmonella sp. | IS 5887 (Part 3): 1999 (RA 2009) BS EN ISO 6579:2002+A1:2007 | Qualitative |
| | | Detection & Enumeration of Bacillus cereus | IS 5887 (Part 6): 2012 (RA 2012) ISO 7932: 2004 | ≥1CFU/ml or ≥10 CFU/g |
| | | Detection & Enumeration of Clostridium perfringens | IS 5887 (Part 4): 1999 (RA 2009) BS EN ISO 7937:2004 | ≥1CFU/ml or ≥10 CFU/g |
| | | Detection of Shigella | IS 5887 (Part 7): 1999 (RA 2009) FDA-BAM 2001 8 th Edn. Ch. 6 | Qualitative |
| | | Detection & Enumeration of Enterobacteriaceae | APHA 2001, 4 th Edn. Ch. 8, Compendium of Methods for the Microbiological Examination of foods, ISO 2158-2:2004 | ≥1CFU/ml or ≥10 CFU/g ≥1CFU/ml or ≥10 CFU/g |
| | | Flat sore spores | APHA 2001, 4 th Edition Compendium of Methods for the Microbiological Examination of foods | ≥1CFU/ml or ≥10 CFU/g |

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|--------------|--|---|--|---|
| | Fruit & Vegetable Products, Meat and Meat Products, Bakery Products, Sea Food, Coffee, Tea, Snacks, Dairy Products, Nuts, Cereals and Pulses, Beverages, Egg Products, Jams & Juices, Spices & Condiments | Detection of Listeria monocytogens | FDA-BAM 2011 8 th Edn. Ch. 10 | Qualitative |
| | | | IS 14988 (Part 1): 2001 (RA 2012) | Qualitative |
| | | | BS EN ISO 11290 1: 1996 + A1 : 2004 | |
| | | | IS 14988 (Part 2): 2002 (RA 2012) | ≥1CFU/ml or ≥10 CFU/g |
| | | | BS EN ISO 11290 2 : 199 8+ A1 : 2004 | |
| | | Detection & Enumeration of Faecal Streptococci | IS 5887 (Part 2): 1976 (RA 2009) 1 st Revision | ≥1CFU/ml or ≥10 CFU/g |
| | | Detection of V. cholerae | IS 5887 (Part 5): 1976 (RA 2009) | Qualitative |
| | | | ISO/TS 21872-1:2007 | Qualitative |
| | | Detection of V. parahaemolyticus | IS 5887 (Part 5): 1976 (RA 2009) | Qualitative |
| | | | ISO/TS 21872-1:2007 | Qualitative |
| | Detection of V. vulnificus | FDA-BAM 2004 8 th Edn. Ch. 9 | Qualitative | |

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| II. WATER | | | | |
| 1. | Drinking Water including Ground water /Surface Water | Total Coliforms | IS 1622: 1981 (RA 2009) Amd. 4 | (2 to 1600) MPN/100 ml |
| | | Thermo tolerant coliforms | IS 1622: 1981 (RA 2009) Amd. 4 | (2 to 1600) MPN/100 ml |
| | | E.coli | IS 1622: 1981 (RA 2009) Amd. 4 | (2 to 1600) MPN/100 ml |
| | | Enterococci / Faecal Streptococci | IS 1622: 1981 (RA 2009) Amd. 4 | (2 to 1600) MPN/100 ml |
| 2. | Water for Swimming Pools and Spas | Total plate count | IS 1622: 1981 (RA 2009) Amd. 4 | ≥1 CFU / ml |
| | | Total Coliforms | IS 1622: 1981 (RA 2009) Amd. 4 | (2 to 1600) MPN/100 ml |
| 3. | Water for Processed Food Industry, Water & Ice | Total plate count | IS 1622: 1981 (RA 2009) Amd. 4 EN ISO 6222:1999 | ≥1 CFU/ ml |
| | | Coliform / E.coli | IS 1622: 1981 (RA 2009) Amd. 4 ISO 9308-1:2000 | (1 to 161) MPN/100 ml Qualitative |
| | | Pseudomonas aeruginosa | EN ISO 16266:2006 | Qualitative |
| | | Clostridium perfringens | Annex III of 98/83/EC | Qualitative |
| | | Enterococci / Faecal Streptococci | ISO 7899-2:2000 | Qualitative |
| | Proteolytic & Lipolytic organisms Combined Count | IS 4251: 1967 (RA 2009) Appendix A | ≥1 CFU/ ml | |

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|--------------|---|--------------------------------------|--|---|
| | Water for Processed Food Industry, Water & Ice | Thermophillic bacteria count | IS 4251: 1967 (RA 2009) Appendix B | ≥1 CFU/ ml |
| | | Slime forming Organisms | IS 1622: 1981 (RA 2009) Amd. 4 | Qualitative |
| 4. | Packaged Drinking Water / Packaged Natural Mineral Water | Total plate count @ 37 °C | IS 5402: 2012 (RA 2012) | ≥1 CFU/ ml |
| | | Total plate count @ 20-22 °C | IS 5402: 2012 (RA 2012) | ≥1 CFU/ ml |
| | | Total Coliforms | IS 15185: 2002 (RA 2009) IS 15188: 2012 IS 5401 (Part 1): 2012 (RA 2012) | Qualitative |
| | | E.coli | IS 15185: 2002 (RA 2009) IS 15188: 2012 IS 5887 (Part 1): 1976 (RA 2009) | Qualitative |
| | | Faecal Streptococci (Enterococci) | IS 15186: 2002 (RA 2009) IS 15188: 2012 IS 5887 (Part 2): 1976 (RA 2009) | Qualitative |
| | | Pseudomonas aeruginosa | IS 13428: 2005 (RA 2009) 2 nd Rev. Annex. D IS 15188: 2012 | Qualitative |

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|-------|---|-----------------------------|--|--|
| | Packaged Drinking Water / Packaged Natural Mineral Water | Staphylococcus aureus | IS 5887 (Part 2): 1976 (RA 2009) IS 15188: 2012 | Qualitative |
| | | Sulphite Reducing Anaerobes | IS 13428: 2005 (RA 2009) 2 nd Revision, Annex. C IS 15188: 2012 | Qualitative |
| | | Yeast and Mould | IS 5403: 1999 (RA 2009) IS 15188: 2012 | Qualitative |
| | | Salmonella | IS 15187: 2002 (RA 2009) IS 15188: 2012 IS 5887 (Part 3): 1999 (RA 2009) | Qualitative |
| | | Shigella | IS 5887 (Part 7): 1999 (RA 2009) IS 15188: 2012 | Qualitative |
| | | Vibrio cholera | IS 5887 (Part 5): 1976 (RA 2009) IS 15188: 2012 | Qualitative |
| | | Vibrio parahaemolyticus | IS 5887 (Part 5): 1976 (RA 2009) IS 15188: 2012 | Qualitative |

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| III. ENVIRONMENT AND POLLUTION | | | | |
| 1. Air/Surface | | | | |
| a. | Surface swab from area | Aerobic Plate Count/ Microbial Load | Chapter 3, Compendium APHA 2001, 4th Edition | $\geq 1\text{CFU}/\text{cm}^2$ |
| | Hand swabs | | | $\geq 1\text{CFU}/\text{Swab}$ |
| | Air sample Plate (Settle Plate Method) | | | (1 to 250) CFU/Plate |
| | Air sample plates using Air Sampler | | | (1 to 250) CFU/m ³ |
| b. | Surface swab from area | Enterobacteriaceae | Chapter 3 & 8, Compendium APHA 2001, 4th Edition | $\geq 1\text{CFU}/\text{cm}^2$ |
| | Hand swabs | | | $\geq 1\text{CFU}/\text{Swab}$ |
| | Air sample Plate (Settle Plate Method) | | | (1 to 250) CFU/Plate |
| | Air sample plates using Air Sampler | | | (1 to 250) CFU/m ³ |

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|--------------|--|--------------------------------|--|---|
| c. | Surface swab from area | Yeast & Mould | Chapter 3 & 20, Compendium APHA 2001, 4th Edition | $\geq 1\text{CFU}/\text{cm}^2$ |
| | Hand swabs | | | $\geq 1\text{CFU}/\text{Swab}$ |
| | Air sample Plate (Settle Plate Method) | | | (1 to 250) CFU/Plate |
| | Air sample plates using Air Sampler | | | (1 to 250) CFU/m ³ |
| d. | Surface swab from area | Coliforms | Chapter 3 & 20, Compendium, APHA 2001, 4 th Edition | $\geq 1\text{CFU}/\text{cm}^2$ |
| | Hand swabs | | | $\geq 1\text{CFU}/\text{Swab}$ |
| | Air sample Plate (Settle Plate Method) | | | (1 to 250) CFU/Plate |
| | Air sample plates using Air Sampler | | | (1 to 250) CFU/m ³ |
| 2. | Effluents/Waste water Effluents, Sewage & Solid Waste | Total plate count | APHA 22 nd Edn. 9215 B | $\geq 1\text{ CFU}/\text{ml}$ |
| | | Total Coliforms | APHA 22 nd Edn. 9221 B | (1.8 to 1600) MPN/100 ml |
| | | Faecal coliforms | APHA 22 nd Edn. 9221 E | (1.8 to 1600) MPN/100 ml |
| | | E.coli | APHA 22 nd Edn. 9221 F | (1.8 to 1600) MPN/100 ml |

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|--------------------------------------|---|--------------------------------------|--|---|
| | Effluents/Waste water Effluents, Sewage & Solid Waste | Enterococci / Faecal Streptococci | APHA 22 nd Edn. 9230 B | (1.8 to 1600) MPN/100 ml |
| | | Pseudomonas aeruginosa | APHA 22 nd Edition 2012 Part 9213 F | (1 to 80)/100 ml |
| IV. DRUGS AND PHARMACEUTICALS | | | | |
| 1. Antibiotics | | | | |
| a. | Gentamycin Sulfate | Microbiological Antibiotic assay | IP 2014 Chapter 2.2.10 (Page no 50 to 58) | ≥ 1 mcg |
| b. | Erythromycin Stearate | | BP 2013 Appendix XIV A Vol V | ≥ 250 mg |
| c. | Erythromycin Estolate | | USP 35 Chapter <81> | ≥ 250 mg |
| 2. | Microbial Limit Test | Total bacterial count | | 10 CFU/g or ml and above |
| | | Total fungal count | | 10 CFU/g or ml and above |
| a. | Solid dosage (Tablets and Capsules) (Pour Plate Technique) | E. coli | IP 2014 Chapter 2.2.9 (Page no 38 to 50) | Qualitative |
| | | Salmonella | BP 2013 Appendix XVI B Vol V | Qualitative |
| | | Staphylococcus aureus | USP 35 Chapter <61> | Qualitative |
| | | Pseudomonas aeruginosa | | Qualitative |
| | | Candida albicans | | Qualitative |

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|--------------|---|---|--|---|
| b. | Liquid Oral dosage (Syrup & Suspension) | Total bacterial count | IP 2014 Chapter 2.2.9 (Page no 38 to 50) | 10 CFU/g or ml and above |
| | | Total fungal count | BP 2013 Appendix XVI B Vol V | 10 CFU/g or ml and above |
| | | E. coli | USP 35 Chapter <61> | Qualitative |
| | | Salmonella | | Qualitative |
| | | Staphylococcus aureus | | Qualitative |
| | | Pseudomonas Aeruginosa | | Qualitative |
| | | Candida albicans | | Qualitative |
| 3. | Endotoxin | | | |
| a. | Parenteral, Bulk solid drug and Medical Device | Bacterial Endotoxin test by (Gel Clot method) | IP 2014 Chapter 2.2.3 (Page no 28 to 38) BP 2013 Appendix XIV C Vol V USP 35 Chapter <85> | Qualitative |
| 4. | Sterility Test | | | |
| a. | Parenteral, Bulk solids drug & Ophthalmic Preparations | Sterility test (Membrane Filtration Technique) | IP 2014 Chapter 2.2.11 (Page no 59 to 66) BP 2013 Appendix XVI A Vol V USP 35 Chapter <71> | Qualitative |

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|-------|--|--|--|---|
| b. | Surgical Dressings and Medical devices | Sterility test (Direct Inoculation Technique) | IP 2014 Chapter 2.2.11 (Page no 59 to 66) BP 2013 Appendix XVI A Vol V USP 35 Chapter <71> | Qualitative |

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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**.