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| Laboratory | Spectro Analytical Labs Ltd., E-41, Okhla Industrial Area, Phase-II, New Delhi | | |
| Accreditation Standard | ISO/IEC 17025:2005 | | |
| Discipline | Biological Testing | Issue Date | 02.03.2014 |
| Certificate Number | T-1073 | Valid Until | 01.03.2016 |
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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 |
|--------------|---|--------------------------------|--|---|
| I. | FOOD & AGRICULTURAL PRODUCTS | | | |
| | a) Processed Cereal Based Weaning Food | Bacterial count | IS 5402-2012 | ≥10 cfu/gm |
| | | Coliform count | IS 5401 (P-1) 2002 | ≥10 cfu/gm |
| | b) Milk-Cereal based weaning food | Bacterial count | IS 5402-2012 | ≥10cfu/gm |
| | | Coliform count | IS 5401 (P-1) 2002 | ≥10 cfu/gm |
| | | S.aureus | IS 5887-8-2002 | ≥10 cfu/gm |
| | | Salmonella | IS 5887-3-1999 | Present/Absent/25gm |
| | | Shigella | IS 5887-7-1999 | Present/Absent/25gm |
| | c) Infant Milk Foods | Bacterial count | IS 5402-2012 | ≥10 cfu/gm |
| | | Coliform count | IS 5401 (P-1) 2002 | ≥10 cfu/gm |
| | d) Ready to Eat Protein Rich Food | Bacterial count | IS 5402-2012 | ≥10 cfu/gm |
| | | Coliform count | IS 5401 (P-1) 2002 | ≥10 cfu/gm |
| | | Salmonella | IS 5887-3-1999 | Present/Absent/25gm |
| | e) Protein Rich Supplement | Bacterial count | IS 5402-2012 | ≥10 cfu/gm |
| | | Coliform count | IS 5401 (P-1) 2002 | ≥10 cfu/gm |

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|--------------|--|-------------------------------------|--|---|
| | f) Quick frozen vegetables | Bacterial count | IS 5402-2012 | ≥10 cfu/gm |
| | | Coliform count | IS 5401 (P-1) 2002 | ≥10 cfu/gm |
| | | E.coli | IS 5887-1-1976 | Present/Absent/gm |
| | | Faecal streptococci | IS 5887-2-1976 | Present/Absent/gm |
| | | S.aureus | IS 5887-8-2002 | ≥10 cfu/gm |
| | g) Milk & Milk Product Raw milk | Metylene blue Reduction test (MBRT) | IS 1479-3-1977 | (1/2h to 5h) |
| | | Pasteurization count | IS 1479-3-1977 | Poor-very good |
| | | Bacterial count | IS 5402-2012 | ≥10 cfu/gm |
| | | Psychrophillic count | IS 1479-3-1977 | ≥10 cfu/gm |
| | | Thermophillic count | IS 1479-3-1977 | ≥10 cfu/gm |
| | | Coliform count | IS 5401 (P-1) 2002 | ≥10 cfu/gm |
| | | Coagulase positive | IS 5887-8-2002 | ≥10 cfu/gm |
| | | S. aureus | IS 5887-8-2002 | ≥10 cfu/gm |
| | | Salmonella | IS 5887-3-1999 | Present/Absent |
| | | Shigella | IS 5887-7-1999 | Present/Absent |
| | | Yeast&Mould | IS 5403-1999 | ≥10cfu/g/ml |
| | | E.coli | IS 5887-1-1976 | Present/Absent/25gm |
| | | L.monocytogenes | IS 14988-1-2001 | Present/Absent/25gm |

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|-------|----------------------------|-----------------------------|---|--|
| | h) Milk powder | Bacterial count | IS 5402-2012 | ≥10 cfu/gm |
| | | Coliform count | IS 5401 (P-1) 2002 | ≥10 cfu/gm |
| | | S.aureus | IS 5887-8-2002 | ≥10 cfu/gm |
| | | Salmonella | IS 5887-3-1999 | Present/Absent/25gm |
| | | Shigella | IS 5887-7-1999 | Present/Absent/25gm |
| | | L.monocytogenes | IS 14988-1-2001 | Present/Absent/25gm |
| | i) Condensed Milk | Bacterial count | IS 5402-2012 | ≥10 cfu/gm |
| | | Coliform count | IS 5401 (P-1) 2002 | ≥10 cfu/gm |
| | | S.aureus-coagulase positive | IS 5887-8-2002 | ≥10 cfu/gm |
| | | Salmonella | IS 5887-3-1999 | Present/Absent/25gm |
| | | Shigella | IS 5887-7-1999 | Present/Absent/25gm |
| | | Y&M count | IS 5403-1999 | ≥10 cfu/gm |
| | j) Chocolates | E.coli | IS 5887-1-1976 | Present/Absent/25gm |
| | | S. aureus | IS 5887-8-2002 | ≥10 cfu/gm |
| | | Salmonella | IS 5887-3-1999 | Present/Absent/25gm |
| | | E.coli | IS 5887-1-1976 | Present/Absent/10gm |

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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 |
|------------------------|----------------------------|-------------------------|---|--|
| k) Wheat Flour | | Y&M count | IS 5403-1999 | ≥10 cfu/gm |
| | | Bacterial count | IS 5402-2012 | ≥10 cfu/gm |
| | | Coliform count | IS 5401 (P-1) 2002 | ≥10 cfu/gm |
| | | Y&M count | IS 5403-1999 | ≥10 cfu/gm |
| l) Meat & Meat Product | | E.coli | IS 5887-1-1976 | Present/Absent/gm |
| | | Bacterial count | IS 5402-2012 | ≥10 cfu/gm |
| | | Coliform count | IS 5401 (P-1) 2002 | ≥10 cfu/gm |
| | | E.coli | IS 5887-1-1976 | Present/Absent/25gm |
| | | Salmonella | IS 5887-3-1999 | Present/Absent/25gm |
| | | Shigella | IS 5887-7-1999 | Present/Absent/25gm |
| | | S.aureus | IS 5887-8-2002 | ≥10 cfu/gm |
| | | Faecal streptococci | IS 5887-2-1976 | ≥10 cfu/gm |
| | | Vibrio cholerae | IS 5887-5-1976 | Present/Absent/25gm |
| | | Vibrio parahaemolyticus | IS 5887-5-1976 | Present/Absent/25gm |
| | | L.monocytogenes | IS 14988-1-2001 | Present/Absent/25gm |
| | | Bacillus cereus | IS 5887-6-2012 | ≥10 cfu/gm |

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|--------------|--|--------------------------------|--|---|
| | m) Rice | Bacterial count | IS 5402-2012 | ≥10 cfu/gm |
| | | Coliform count | IS 5401 (P-1) 2002 | ≥10 cfu/gm |
| | | E.coli | IS 5887-1-1976 | Present/Absent/25gm |
| | | Salmonella | IS 5887-3-1999 | Present/Absent/25gm |
| | | Y&M count | IS 5403-1999 | ≥10 cfu/gm |
| | | Bacillus cereus | IS 5887-6-2012 | ≥10 cfu/gm |
| | | S.aureus | IS 5887-8-2002 | ≥10 cfu/gm |
| | n) Fruit Vegetable Product | Bacterial count | IS 5402-2012 | ≥10 cfu/gm |
| | | Coliform count | IS 5401 (P-1) 2002 | ≥10 cfu/gm |
| | | E.coli | IS 5887-1-1976 | Present/Absent/25gm |
| | | Y&M count | IS 5403-1999 | ≥10 cfu/gm |
| II. | DRUGS & PHARMACEUTICALS | | | |
| | Herbal Products | | | |
| | a) Herbal Products | Bacterial count | IS 5402-2012 | ≥10 cfu/ml/gm |
| | Herbal Medicine (Tablets, Syrup, Capsules & Powder) | Coliform count | IS 5401 (P-1) 2002 | ≥10 cfu/gm |
| | | E.coli | IS 5887-1-1976 | ≥10 cfu/ml/g & P/A/25gm |
| | b) Herbal Cosmetics (Face Pack, Shampoo, Cream, Lotion) | Salmonella | IS 5887-3-1999 | Present/Absent/ml/gm |
| | c) Herbal Formulations (Juices, Soap, Shaving Lotion, Food Supplements) | Y&M count | IS 5403-1999 | ≥10 cfu/ml/gm |
| III. | COSMETICS & ESSENTIAL OILS | | | |

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|------------------|---|---|--|---|
| | a) Cosmetics (Shampoo, Face Packs, Moisturizer lotion, Cream gel, Lipstick, Lip Guard, Liquid Foundation) | Microbial count (Bacterial Count + Yeast & mold count) | IS 14648-2011 IS 14648-2011 | ≥ 10 cfu/gm ≥ 10 cfu/gm |
| | | Gram Positive (S.aureus) Gram Negative (Pseudonas) | IS 14648-2011 IS 14648-2011 | Present/Absent Present/Absent |
| | b) ATF Fuel | Microbial count | IP-385/99 | ≥ 1 cfu/l |
| IV. WATER | | | | |
| | a) Swimming pool water | Standard plate count | IS 3328-(Ann A)-1993 | ≥ 1 cfu/ml |
| | b) Drinking water | Coliform bacteria E.coli Coliform Fecal coliform | IS 1622-1981 IS 1622-1981 IS 1622-1981 IS 1622-2003 | ≥ 2 MPN /100ml Present/Absent/100ml ≥ 2 MPN/100ml Present/Absent/100ml |

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|--------------|--|--|--|---|
| | c) Packaged Drinking Water | E.coli | IS 5887-1-1976 IS 15185-2002 | Present/Absent/250ml |
| | | Coliform bacteria | IS 5401-1-2002 IS 15185-2002 | Present/Absent/250ml |
| | | Faecal streptococci | IS 15186-2002 | Present/Absent/250ml |
| | | Sulphite reducing anaerobes | IS13428(Ann-C)-2005 Amd 2011 | Present/Absent/50ml |
| | | Pseudomonas aeruginosa | IS13428(Ann-D)-2005 Amd 2011 | Present/Absent/250ml |
| | | Aerobic microbial count (at 20-22°C 72 hrs and at 37°C 24 hrs) | IS 5402-2012 | ≥1 cfu/ml |
| | | Yeast and Mould | IS 5403-1999 | Present/Absent/250ml |
| | | Salmonella | IS 5887-3-1999 IS 15187-2002 | Present/Absent/250ml |
| | | Shigella | IS 5887-7-1999 | Present/Absent/250ml |
| | | Vibrio Cholera Vibrio parahaemolyticus S. aureus | IS 5887-5-1976 IS 5887-5-1976 IS 5887-2-1976 | Present/Absent/250ml Present/Absent /250ml Present/Absent/250ml |
| | d) Packaged Natural Mineral Water | E.coli | IS 5887-1-1976 IS 15185-2002 | Present/Absent/250ml |
| | | Coliform bacteria | IS 5401-1-2002 IS 15185-2002 | Present/Absent/250ml |
| | | Faecal streptococci | IS 15186-2002 | Present/Absent/250ml |
| | | Sulphite reducing anaerobes Pseudomonas aeruginosa | IS13428(Ann-C)Amm2011 IS13428(Ann-D) Amm2011 | Present/Absent/250ml Present/Absent/250ml |
| | | Aerobic Microbial count (at 20-22°C 72 hrs and at 37°C 24 hrs) | IS 5402 - 2002 | Present/Absent/250ml |

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|---------------------------------------|---|---|---|---|
| | | Yeast and Mould | IS 5403-1999 | Present/Absent/250ml |
| | | Salmonella | IS 5887-3-1999 | Present/Absent/250ml |
| | | | IS 15187-2002 | Present/Absent/250ml |
| | | Shigella | IS 5887-7-1999 | Present/Absent/250ml |
| | | Vibrio Cholera | IS 5887-5-1976 | Present/Absent/250ml |
| | | Vibrio parahaemolyticus | IS 5887-5-1976 | Present/Absent/250ml |
| | | S. aureus | IS 5887-8-2002 | Present/Absent/250ml |
| | | Bacterial Endotoxins | USP 36 - 2013 | >0.25 EU/ml |
| V. ENVIRONMENT & POLLUTION | | | | |
| | (a) Bioburden Estimation of Compressed Air | Total Plate Test for viable microbiological Count | ISO 8573-7:2003 | 1 cfu/m ³ to TNTC contaminant content cfu/m ³ |

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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**.