

Laboratory National Collateral Management Services Ltd., CommGrade Testing & Certification, D.No.213/1P, Thiru-vi-ka Street, Manapakkam Main Road, Gerugambakkam, Chennai, Tamil Nadu

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-7412

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|-----|----------------------------|-------------------------|---|--|

BIOLOGICAL TESTING

| I. | FOOD AND AGRICULTURAL PRODUCTS | | | |
|----|--|-----------------------|---|--|
| 1 | Milk & Dairy Products | | | |
| | Cow, Standardized Toned, Double toned and Full cream and Skimmed (boiled, pasteurized, flavored, sterilized, UHT Milk | Total Plate Count | IS 5402 | ≥10 cfu/g ≥1cfu/ml |
| | | | US FDA BAM | ≥10 cfu/g ≥1cfu/ml |
| | | Coliform count | IS5401(Part 1) ISO4832 | ≥10cfu/g ≥1cfu/ml |
| | | | IS5401(Part 2) ISO4831 | Qualitative (Present/Absent/g/ml) |
| | | | USFDABAM | 0.3 to 110MPN/g ≥10cfu/g ≥1cfu/ml |
| | | | | 3 to 1100MPN/g |
| | | E.coli | IS5887(Part1) | ≥10cfu/g ≥1cfu/ml |
| | | | | (Qualitative) (Present/Absent/g/ml) |
| | | | | 0.3 to 110MPN/g |
| | | | | USFDABAM ≥10cfu/g ≥1cfu/ml |
| | | | 3 to 1100MPN/g | |
| | | Salmonellaspp. | IS5887(Part3) ISO6579-1 | Qualitative (Present/Absent/25g/25ml) |
| | | | USFDABAM | Qualitative (Present/Absent/25g/25ml) |
| | | Staphylococcus aureus | IS5887(Part 8/Sec-1) ISO:6888 (Part 1) | ≥10cfu/g ≥1cfu/ml |

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|-----|----------------------------|-------------------------|---|--|
| | | | USFDABAM | ≥10cfu/g ≥1cfu/ml |
| | | Listeriamonocytogenes | IS14988-(Part 1) ISO11290(Part 1) | Qualitative (Present/Absent/25g/25ml) |
| | | | USFDABAM-2017(Chapter-10) | Qualitative (Present/Absent/25g/25ml) |
| | | Bacillus cereus | IS5887(Part 6) ISO7932 | ≥10cfu/g ≥1cfu/ml |
| | | | USFDABAM | ≥10cfu/g ≥1cfu/ml |
| | | Clostridium perfringens | IS5887(Part 4) ISO7937 | ≥10cfu/g ≥1cfu/ml |
| | | | | ≥10cfu/g ≥1cfu/ml |
| | | | USFDABAM | ≥10cfu/g ≥1cfu/ml |
| | | Yeast and Mould | IS5403 | ≥10cfu/g ≥1cfu/ml |
| | | | USFDABAM | ≥10cfu/g ≥1cfu/ml |
| | | Shigella | IS5887 (Part 7) ISO21567 | Qualitative (Present/Absent/25g/25ml) |
| | | | USFDABAM | Qualitative (Present/Absent/25g/25ml) |
| | | Vibrio cholera | IS5887 (Part 5) ISO21872-1 | Qualitative Present/Absent/25g/25ml |
| | | | USFDABAM | Qualitative (Present/Absent/25g/25ml) |
| | | Vibriopara haemolyticus | IS5887 (Part 5) ISO21872-1 | Qualitative (Present/Absent /25g/25ml) |
| | | | USFDABAM | Qualitative (Present/Absent/25g/25ml) |

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|-----|---|-------------------------|---|--|
| 2. | Fruits & Vegetable Products | | | |
| | Raw Fruits and Vegetables (Green beans, Tomato, Sweet corn/Baby corn, Mushrooms, Carrot, Ladiesfinger, Cauliflower, Brinjal, Sweet potato, Gherkins, Table onions, Garlic) | Total Plate Count | IS5402 | ≥10cfu/g ≥1cfu/ml |
| | | | USFDABAM | ≥10cfu/g ≥1cfu/ml |
| | | Clostridium perfringens | IS5887 (Part 4) ISO:7937 | ≥10cfu/g ≥1cfu/ml |
| | | | USFDABAM | ≥10cfu/g ≥1cfu/ml |
| | | Yeast and mould | IS5403 | ≥10cfu/g ≥1cfu/ml |
| | | | USFDABAM | ≥10cfu/g ≥1cfu/ml |
| | | Staphylococcus aureus | IS5887 (Part 8/SEC 1) ISO6888 (Part 1) | ≥10cfu/g ≥1cfu/ml |
| | | | USFDABAM | ≥10cfu/g ≥1cfu/ml |
| | | Salmonella | IS5887 (Part 3) ISO6579-1 | Qualitative (Present/Absent/25g/25ml) |
| | | | USFDABAM | Qualitative (Present/Absent/25g/25ml) |
| | | Shigella | IS5887 (Part 7) ISO21567 | Qualitative (Present/Absent/25g/25ml) |
| | | | USFDABAM | Qualitative (Present/Absent/25g/25ml) |
| | | E.coli | IS5887 (Part 1) | ≥10cfu/g ≥1cfu/ml |
| | | | | Qualitative (Present/Absent/g/ml) |
| | | | 0.3 to 110 MPN/g | |
| | | USFDABAM | ≥10cfu/g ≥1cfu/ml | |

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|-----|-------------------------------------|-------------------------|--|---|
| | | Vibrio cholera | IS5887 (Part 5) ISO21872-1 USFDABAM | 3 to 1100 MPN/g Qualitative(Present/Absent /25g/25ml) |
| | | Listeria monocytogenes | IS14988 (Part 1) ISO:11290 (Part 1) USFDABAM | Qualitative (Present/Absent/25g/25ml) Qualitative (Present/Absent/25g/25ml) |
| | | Vibriopara haemolyticus | IS5887 (Part 5) ISO21872-1 USFDABAM | Qualitative (Present/Absent/25g/25ml) Qualitative(Present/Absent /25g/25ml) |
| | | Coliform | IS5401 (Part 1) ISO4832 IS5401 (Part 2) ISO4831 USFDABAM | ≥10cfu/g ≥1cfu/ml Qualitative (Present/Absent/g/ml) 0.3 to 110MPN/g ≥10cfu/g ≥1cfu/ml |
| | | Bacillus cereus | IS5887 (Part 6) ISO:7932 USFDABAM | 3 to 1100MPN/g ≥10cfu/g ≥1cfu/ml ≥10cfu/g ≥1cfu/ml |
| 3. | Jams, Juices, Sauces & Concentrates | | | |
| | Fruit and Vegetables Sauces and Jam | Total Plate Count | IS5402 USFDABAM | ≥10cfu/g ≥1cfu/ml ≥10cfu/g ≥1cfu/ml |

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|-----|----------------------------|-------------------------|---|--|
| | | Yeastandmouldcount | IS5403 | ≥10cfu/g ≥1cfu/ml |
| | | | USFDABAM | ≥10cfu/g ≥1cfu/ml |
| | | Staphylococcus aureus | IS5887 (Part 8/SEC-1) ISO:6888 (Part 1) | ≥10cfu/g ≥1cfu/ml |
| | | | USFDABAM | ≥10cfu/g ≥1cfu/ml |
| | | Salmonella | IS5887 (Part 3) ISO6579-1 | Qualitative (Present/Absent25g/25ml) |
| | | | USFDABAM | Qualitative (Present/Absent25g/25ml) |
| | | Shigella | IS5887 (Part 7) ISO21567 | Qualitative (Present/Absent25g/25ml) |
| | | | USFDABAM | Qualitative (Present/Absent25g/25ml) |
| | | E.coli | IS5887 (Part 1) | ≥10cfu/g ≥1cfu/ml |
| | | | | Qualitative (Present/Absent/g/ml) 0.3 to 110 MPN/g |
| | | | USFDABAM- | ≥10cfu/g ≥1cfu/ml |
| | | | | 3 to 1100MPN/g |
| | | Vibrio cholera | IS5887 (Part 5) ISO21872-1 | Qualitative(Present/Absent 25g/25ml) |
| | | | USFDABAM-2004(Chapter-9) | Qualitative (Present/Absent25g/25ml) |
| | | Listeria monocytogenes | IS14988 (Part 1) ISO11290 (Part 1) | Qualitative (Present/Absent25g/25ml) |
| | | | USFDA BAM | Qualitative (Present/Absent25g/25ml) |

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|-----------|--|-------------------------|---|---|
| | | Clostridiumperfringens | IS5887 (Part 4) ISO 7937 | ≥10cfu/g ≥1cfu/ml |
| | | | USFDABAM | ≥10cfu/g ≥1cfu/ml |
| | | Coliform | IS5401 (Part 1) ISO4832 | ≥10cfu/g ≥1cfu/ml |
| | | | IS5401 (Part 2) ISO4831 | Qualitative (Present/Absent/g/ml) |
| | | | USFDABAM | 0.3 MPN/g to 110MPN/g ≥10cfu/g ≥1cfu/ml |
| | | Bacillus cereus | IS 5887(Part 6) ISO:7932 | ≥10 cfu/g ≥1cfu/ml |
| | | | USFDA BAM | ≥10cfu/g ≥1cfu/ml |
| 4. | Cereals & Cereal Products | | | |
| | WholeandSplitsof Urad,Toor,GreenGram,RedGram,Mill ets,Rice,Rawa,BesanPowder,Basmati Rice,Wheat,Atta,Maida,Papadum | TotalPlateCount | IS 5402 | ≥10cfu/g ≥1cfu/ml |
| | | | USFDABAM | ≥10cfu/g ≥1cfu/ml |
| | | Shigella | IS5887(Part 7) ISO21567 | Qualitative(Present/Absent /25g/25ml) |
| | | | USFDABAM | Qualitative(Present/Absent 25g/25ml) |
| | | E.coli | IS5887(Part 1) | ≥10cfu/g ≥1cfu/ml |
| | | | | Qualitative (Present/Absent/g/ml) |
| | | | USFDABAM | 0.3 MPN/g to 110MPN/g ≥10cfu/g ≥1cfu/ml |
| | | | | 3MPN/g to 1100MPN/g |

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|-----|----------------------------|-------------------------|---|--|
| | | Coliform | IS5401(Part 1) ISO4832 | ≥10cfu/g ≥1cfu/ml |
| | | | IS5401(Part2) ISO48312006 | Present/Absent/g/ml (Qualitative) |
| | | | USFDABAM | 0.3 MPN/g to 110MPN/g ≥10cfu/g ≥1cfu/ml |
| | | Salmonella | IS5887(Part 3) ISO6579-1 | 3MPN/g to 1100MPN/g Qualitative (Present/Absent25g/25ml) |
| | | | USFDABAM | Qualitative (Present/Absent25g/25ml) |
| | | Staphylococcus aureus | IS5887(Part 8/SEC1) ISO6888(Part 1) | ≥10cfu/g ≥1cfu/ml |
| | | | USFDABAM | ≥10cfu/g ≥1cfu/ml |
| | | Vibrio cholera | IS5887(Part 5) ISO21872-1 | Qualitative (Present/Absent25g/25ml) |
| | | | USFDABAM | Qualitative (Present/Absent25g/25ml) |
| | | Listeria monocytogenes | IS14988(Part 1) ISO11290(Part1) | Qualitative (Present/Absent25g/25ml) |
| | | | USFDABAM | Qualitative (Present/Absent25g/25ml) |
| | | Clostridium perfringens | IS5887(Part 4) ISO7937 | ≥10cfu/g ≥1cfu/ml |
| | | | USFDABAM | ≥10cfu/g ≥1cfu/ml |
| | | Bacillus cereus | IS5887(Part 6) ISO 7932 | ≥10cfu/g ≥1cfu/ml |
| | | | USFDABAM | ≥10cfu/g ≥1cfu/ml |

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|-----|--|-------------------------|---|---|
| | | Yeast & mould | IS5403 | ≥10cfu/g ≥1cfu/ml |
| | | | USFDABAM | ≥10cfu/g ≥1cfu/ml |
| 5. | Snacks And Instant Mixes | | | |
| | Ready to Eat Food, Cooked Food, Ready to cook Food, Savories, Cookies | TotalPlateCount | IS5402 | ≥10cfu/g ≥1cfu/ml |
| | | | USFDABAM | ≥10cfu/g ≥1cfu/ml |
| | | Coliformcount | IS5401(Part 1) ISO:4832:2006 | ≥10cfu/g ≥1cfu/ml |
| | | | IS5401(Part 2) ISO4831 | Qualitative (Present/Absent/g/ml) |
| | | | | 0.3 MPN/g to 110MPN/g |
| | | | USFDABAM | ≥10cfu/g ≥1cfu/ml |
| | | | | 3 to 1100 MPN/g |
| | | Yeast&mould | IS5403 | ≥10cfu/g ≥1cfu/ml |
| | | | USFDABAM | ≥10cfu/g ≥1cfu/ml |
| | | Salmonella | IS5887 (Part3) ISO6579-1 | Qualitative (Present/Absent25g/25ml) |
| | | | USFDABAM | Qualitative (Present/Absent25g/25ml) |
| | | Shigella | IS5887(Part 7) ISO21567 | Qualitative (Present/Absent25g/25ml) |
| | | | USFDABAM-2013 (Chapter-6) | Qualitative (Present/Absent25g/25ml) |

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|-----|----------------------------|-------------------------|---|---|
| | | E.coli | IS5887(Part 1) | ≥10cfu/g ≥1cfu/ml |
| | | | | Qualitative (Present/Absent/g/ml) |
| | | | US FDA BAM | 0.3MPN/g to 110MPN/g ≥10 cfu/g ≥1cfu/ml |
| | | Staphylococcus aureus | IS5887(Part 8/SEC-1) ISO6888 (Part 1) | 3 MPN/g to 1100 MPN/g ≥10cfu/g ≥1cfu/ml |
| | | | USFDABAM | ≥10cfu/g ≥1cfu/ml |
| | | Vibrio cholera | IS5887(Part 5) ISO21872-1 | (Qualitative) Present/Absent/25g/25ml |
| | | | USFDABAM | (Qualitative) Present/Absent/25g/25ml |
| | | Listeria monocytogenes | IS14988-(Part 1) ISO11290(Part 1) | (Qualitative) Present/Absent/25g/25ml |
| | | | USFDABAM-2017 | (Qualitative) Present/Absent/25g/25ml |
| | | Vibrio parahaemolyticus | IS5887 (Part 5) ISO21872-1 | (Qualitative) Present/Absent/25g/25ml |
| | | | USFDABAM | (Qualitative) Present/Absent/25g/25ml |
| | | Clostridium perfringens | IS5887 (Part 4) ISO7937 | ≥10cfu/g ≥1cfu/ml |
| | | | USFDABAM | ≥10cfu/g ≥1cfu/ml |
| | | Bacillus cereus | IS5887 (Part 6) ISO:7932:2004 | ≥10cfu/g ≥1cfu/ml |
| | | | USFDABAM | ≥10cfu/g ≥1cfu/ml |

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|-----|---|-------------------------|---|--|
| 6. | Sugar & Sugar Products | | | |
| | Plantation White Sugar and Refined Sugar, Sugar Boiled Confectionery and Chocolate | Total Plate Count | IS5402-2012-RA2018 | ≥10cfu/g ≥1cfu/ml |
| | | | USFDABAM | ≥10cfu/g ≥1cfu/ml |
| | | Coliform count | IS5401(Part 1) ISO4832 | ≥10cfu/g ≥1cfu/ml |
| | | | IS5401(Part 2) ISO4831 | Qualitative (Present/Absent/g/ml) |
| | | | | 0.3 MPN/g to 110MPN/g |
| | | | | USFDABAM- |
| | | | | ≥10cfu/g ≥1cfu/ml |
| | | | | 3MPN/g/ to 1100MPN/g |
| | | Yeast & mould | IS5403 | ≥10cfu/g ≥1cfu/ml |
| | | | USFDABAM | ≥10cfu/g ≥1cfu/ml |
| | | Salmonella | IS5887(Part3) ISO:6579-1 | Qualitative (Present/Absent/25g/25ml) |
| | | | USFDABAM | Qualitative (Present/Absent/25g/25ml) |
| | | Shigella | IS5887(Part 7) ISO21567 | Qualitative (Present/Absent/25g/25ml) |
| | | | USFDABAM | Qualitative (Present/Absent/25g/25ml) |
| | E.coli | IS5887(Part1) | ≥10cfu/g ≥1cfu/ml | |
| | | | Qualitative (Present/Absent/g/ml) | |
| | | | 0.3 MPN/g to 110MPN/g | |

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|-----|---|-------------------------|---|--|
| | | | USFDABAM | ≥10cfu/g ≥1cfu/ml |
| | | Staphylococcus aureus | IS5887(Part 8/SEC1) ISO6888(Part 1) | 3 MPN/g to 1100MPN/g ≥10cfu/g ≥1cfu/ml |
| | | Vibrio cholera | USFDABAM-2016(Chapter-12) IS5887(Part 5) ISO21872-1 | ≥10cfu/g ≥1cfu/ml Qualitative (Present/Absent/25g/25ml) |
| | | Listeria monocytogenes | USFDABAM IS14988(Part 1) ISO11290(Part 1) | Qualitative (Present/Absent/25g/25ml) |
| | | Vibrio parahaemolyticus | USFDABAM IS5887(Part 5) ISO21872-1 | Qualitative (Present/Absent/25g/25ml) |
| | | Clostridium perfringens | USFDABAM IS5887-(Part 4) ISO7937 | Qualitative (Present/Absent/25g/25ml) ≥10cfu/g ≥1cfu/ml |
| | | Bacillus cereus | USFDABAM IS5887(Part 6) ISO:7932 | ≥10cfu/gor ≥1cfu/ml ≥10cfu/gor ≥1cfu/ml |
| 7. | Herbs, Spices And Condiments | | | |
| | Whole and Ground or mixed Chilly/Turmeric, Cloves, Coriander, Cinnamon, Ginger, Nutmeg, Pe | Total plate count | IS5402 | ≥10cfu/g ≥1cfu/ml |
| | | Coliform count | USFDABAM IS5401(Part 1) | ≥10cfu/g ≥1cfu/ml ≥10cfu/g |

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|-----|--|---|---|--|
| | pperBlack, Curry powder, Cardamom, Curry Masala, Popp yseeds, Caraway, Fenugreek, Mixed Masala Curry | | ISO:4832 | ≥1cfu/ml |
| | | | IS5401(Part 2) ISO4831 | Qualitative (Present/Absent/g/ml) 0.3MPN/g to 110MPN/g |
| | | | USFDABAM | ≥10cfu/g ≥1cfu/ml |
| | | | | 3MPN/gl to 1100MPN/g |
| | | E.coli | IS5887(Part 1) | ≥10cfu/g ≥1cfu/ml |
| | | | | Qualitative (Present/Absent/g/ml) 0.3MPN/g to 110MPN/g |
| | | | USFDABAM | ≥10cfu/g ≥1cfu/ml |
| | | | | 3MPN/g to 1100MPN/g |
| | | Salmonella | IS5887(Part 3) ISO6579-1 | Qualitative (Present/Absent/25g/25ml) |
| | | | USFDABAM | Qualitative (Present/Absent/25g/25ml) |
| | Shigella | IS5887(Part 7) ISO21567 | Qualitative (Present/Absent/25g/25ml) | |
| | | USFDABAM | Qualitative (Present/Absent/25g/25ml) | |
| | Staphylococcus aureus | IS5887(Part 8/SEC-1) ISO6888(Part 1) | ≥10cfu/g ≥1cfu/ml | |
| | | USFDABAM | ≥10cfu/g ≥1cfu/ml | |
| | Yeast & Mould | IS5403 | ≥10cfu/g ≥1cfu/ml | |
| | | USFDABAM | ≥10cfu/g ≥1cfu/ml | |
| | Clostridium perfringens | IS5887(Part 4) | ≥10cfu/g | |

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|-----------|-----------------------------|-------------------------|---|--|
| | | | ISO7937 | ≥1cfu/ml |
| | | | USFDABAM | ≥10cfu/g ≥1cfu/ml |
| | | Listeriamonocytogenes | IS14988(Part 1) ISO11290(Part 1) | Qualitative (Present/Absent/25g/25ml) |
| | | | USFDABAM | Qualitative (Present/Absent/25g/25ml) |
| 8. | Nut And Nut Products | | | |
| | Dry Fruits and Nuts | TotalPlatecount | IS5402 | ≥10cfu/g ≥1cfu/ml |
| | | | USFDABAM | ≥10cfu/g ≥1cfu/ml |
| | | YeastandMould | IS5403 | ≥10cfu/g ≥1cfu/ml |
| | | | USFDABAM | ≥10cfu/g ≥1cfu/ml |
| | | Staphylococcus aureus | IS5887(Part 8/SEC-1) ISO6888(Part1) | ≥10cfu/g ≥1cfu/ml |
| | | | USFDABAM | ≥10cfu/g ≥1cfu/ml |
| | | Salmonella | IS5887 (Part 3) ISO6579-1 | Qualitative (Present/Absent/25g/25ml) |
| | | | USFDABAM | Qualitative (Present/Absent/25g/25ml) |
| | | Shigella | IS5887(Part 7) ISO21567 | Qualitative (Present/Absent/25g/25ml) |
| | | | USFDABAM | Qualitative (Present/Absent/25g/25ml) |
| | | Clostridium | IS5887(Part 4) ISO7937 | ≥10cfu/g ≥1cfu/ml |
| | | | USFDABAM | ≥10cfu/g ≥1cfu/ml |

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|-----|----------------------------|-------------------------|---|--|
| | | E.coli | IS5887(Part 1) | ≥10cfu/g ≥1cfu/ml (Enumeration) |
| | | | | Qualitative (Present/Absent/g/ml) |
| | | | | 0.3 MPN/g to 110MPN/g |
| | | | USFDABAM | ≥10cfu/g ≥1cfu/ml |
| | | | | 3MPN/g to 1100 MPN/g/ |
| | | Coliformcount | IS5401(Part 1) ISO4832 | ≥10cfu/g ≥1cfu/ml |
| | | | IS5401(Part 2) ISO4831 | Qualitative (Present/Absent/g/ml) |
| | | | | 0.3 MPN/g to 110MPN/g |
| | | | USFDABAM | ≥10cfu/g ≥1cfu/ml |
| | | | | 3 MPN/g to 1100MPN/g |
| | | Vibriochoerae | IS5887 (Part 5) ISO21872-1 | Qualitative (Present/Absent/25g/25ml) |
| | | | USFDABAM | Qualitative (Present/Absent/25g/25ml) |
| | | Vibrioparahaemolyticus | IS5887(Part 5) ISO21872-1 | Qualitative (Present/Absent/25g/25ml) |
| | | | USFDABAM | Qualitative (Present/Absent/25g/25ml) |
| | | Listeriamonocytogenes | IS14988(Part 1) ISO:11290(Part 1) | Qualitative (Present/Absent/25g/25ml) |
| | | | USFDABAM | Qualitative (Present/Absent/25g/25ml) |

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|-----|--|-------------------------|---|---|--|
| 9. | Meat And Meat Products | | | | |
| | CannedChopped meat/CannedChicken/Cannedmuttonandgoatmeat/frozenmutton/chicken/Goatandbuffalo | TotalPlateCount | IS5402 | ≥10cfu/g ≥1cfu/ml | |
| | | | USFDABAM | ≥10cfu/g ≥1cfu/ml | |
| | | E.coli | IS5887 (Part 1) | ≥10cfu/gr ≥1cfu/ml | |
| | | | | Qualitative (Present/Absent/g/ml) 0.3 MPN/gto110MPN/g | |
| | | | | USFDABAM-2017(Chapter-4) | ≥10cfu/g ≥1cfu/ml |
| | | | | | 3MPN/gto1100MPN/g |
| | | Staphylococcus aureus | IS5887(Part 8/Sec 1) ISO6888(Part 1) | USFDABAM | ≥10cfu/g ≥1cfu/ml |
| | | | | USFDABAM | ≥10cfu/g ≥1cfu/ml |
| | | Salmonella | IS5887(Part 3) ISO:6579-1 | USFDABAM | Qualitative (Present/Absent/25g/25ml) |
| | | | | USFDABAM | Qualitative (Present/Absent/25g/25ml) |
| | | Clostridium perfringens | IS5887(Part 4) ISO:7937 | USFDABAM | ≥10cfu/g ≥1cfu/ml |
| | | | | USFDABAM | ≥10cfu/g or ≥1cfu/ml |
| | | Coliform count | IS5401(Part 1) ISO4832 | IS5401(Part 2) ISO4831 | ≥10cfu/g r≥1cfu/ml |
| | | | | Qualitative (Present/Absent/g/ml) 0.3 MPN/g to 110MPN/g | |

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|------------|---|-------------------------|---|--|
| | | | USFDABAM | ≥10cfu/g ≥1cfu/ml |
| | | Listeriamonocytogenes | IS14988 (Part 1) ISO11290(Part 1) | 3 MPN/gto1100MPN/g Qualitative (Present/Absent/25g/25ml) |
| | | | USFDABAM | Qualitative (Present/Absent/25g/25ml) |
| | | Vibriocholerae | IS5887(Part 5) ISO21872-1 | Qualitative (Present/Absent/25g/25ml) |
| | | | USFDABAM | Qualitative (Present/Absent/25g/25ml) |
| | | Yeast&mould | IS5403 | ≥10cfu/g ≥1cfu/ml |
| | | | USFDABAM | ≥10cfu/g ≥1cfu/ml |
| | | Bacilluscereus | IS5887(Part 6) ISO:7932 | ≥10cfu/g ≥1cfu/ml |
| | | | USFDABAM | ≥10cfu/g ≥1cfu/ml |
| 10. | Fish And Fisheries | | | |
| | Raw Frozen Shrimps, Prawns, lobsterand Squid | TotalPlateCount | IS5402 | ≥10cfu/g ≥1cfu/ml |
| | | | USFDABAM | ≥10cfu/g ≥1cfu/ml |
| | | E.coli | IS5887(Part1) | ≥10cfu/g ≥1cfu/ml |
| | | | | Qualitative (Present/Absent/g/ml) |
| | | | | 0.3MPN/g to 110MPN/g |
| | | | USFDABAM | ≥10cfu/g ≥1cfu/ml |
| | | | | 3MPN/g to 1100MPN/g |

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|-----|----------------------------|-------------------------|---|--|
| | | Staphylococcus aureus | IS5887(Part 8/Sec-1) ISO6888(Part 1) | ≥10cfu/g ≥1cfu/ml |
| | | | USFDABAM-2016(Chapter-12) | ≥10cfu/g ≥1cfu/ml |
| | | Coliform count | IS5401(Part 1) ISO:4832 | ≥10cfu/g ≥1cfu/ml |
| | | | IS5401 (Part 2) ISO4831 | Qualitative (Present/Absent/g/ml) 0.3MPN/g to 110MPN/g |
| | | | USFDABAM | ≥10cfu/g or ≥1cfu/ml |
| | | Salmonella | IS5887(Part 3) ISO:6579-1 | Qualitative (Present/Absent/25g/25ml) |
| | | | USFDABAM | Qualitative (Present/Absent/25g/25ml) |
| | | Shigella | IS5887(Part 7) ISO21567 | Qualitative (Present/Absent/25g/25ml) |
| | | | USFDABAM | Qualitative (Present/Absent/25g/25ml) |
| | | Vibrio cholerae | IS5887(Part 5) ISO21872-1 | Qualitative (Present/Absent/25g/25ml) |
| | | | USFDABAM | Qualitative (Present/Absent/25g/25ml) |
| | | Vibrio parahaemolyticus | IS5887(Part 5) ISO21872-1 | Qualitative (Present/Absent/25g/25ml) |
| | | | USFDABAM | Qualitative (Present/Absent/25g/25ml) |
| | | Yeast and Mould | IS5403 | ≥10cfu/g ≥1cfu/ml |
| | | | USFDABAM | ≥10cfu/g ≥1cfu/ml |

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|-----|--|-------------------------|---|--|
| | | Listeriamonocytogenes | IS14988(Part 1) ISO11290(Part 1) | Qualitative (Present/Absent/25g/25ml) |
| 11. | Carbonated Non Alcoholic Beverages | | USFDABAM | Qualitative (Present/Absent/25g/25ml) |
| | Supplement health drinks ,Fruit juices | TotalPlateCount | IS5402 | ≥10cfu/g ≥1cfu/ml |
| | | | USFDABAM | ≥10cfu/g ≥1cfu/ml |
| | | Coliformcount | IS5401(Part 1) ISO4832 | ≥10cfu/g ≥1cfu/ml |
| | | | IS5401(Part 2) ISO4831 | Qualitative (Present/Absent/g/ml) |
| | | | | 0.3 MPN/gto110MPN/g |
| | | | USFDABAM | ≤10cfu/g ≤1cfu/ml |
| | | Yeast&mould | IS5403 | 3 MPN/g to 1100MPN/g ≥10cfu/g ≥1cfu/ml |
| | | | USFDABAM | ≥10cfu/g ≥1cfu/ml |
| | | Salmonella | IS5887(Part3) ISO6579-1 | Qualitative (Present/Absent/25g/25ml) |
| | | | USFDABAM | Qualitative (Present/Absent/25g/25ml) |
| | | Shigella | IS5887(Part 7) ISO21567 | Qualitative (Present/Absent/25g/25ml) |
| | | | USFDABAM | Qualitative (Present/Absent/25g/25ml) |
| | | E.coli | IS5887(Part 1) | ≥10cfu/g ≥1cfu/ml |
| | | | | Qualitative (Present/Absent/g/ml) |

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|------------|--|-------------------------|---|--|
| | | | USFDABAM | 0.3 MPN/g to 110 MPN/g ≥10cfu/g ≥1cfu/ml |
| | | Staphylococcus aureus | IS5887(Part 8/SEC-1) ISO:6888(Part 1) USFDABAM | 3MPN/g to 1100MPN/g ≥10cfu/g ≥1cfu/ml |
| | | Vibrio cholera | IS5887(Part 5) ISO21872-1 USFDABAM | Qualitative (Present/Absent/25g/25ml) Qualitative (Present/Absent/25g/25ml) |
| | | Vibriopara haemolyticus | IS5887(Part 5) ISO21872-1 USFDABAM | Qualitative (Present/Absent/25g/25ml) Qualitative (Present/Absent/25g/25ml) |
| | | Listeria monocytogenes | IS14988-(Part 1) ISO11290(Part 1) USFDABAM | Qualitative (Present/Absent/25g/25ml) Qualitative (Present/Absent/25g/25ml) |
| | | Bacillus cereus | IS5887(Part 6) ISO:7932 USFDABAM | ≥10cfu/g ≥1cfu/ml ≥10cfu/g ≥1cfu/ml |
| | | Clostridium perfringens | IS5887(Part 4) ISO:7937 USFDABAM | ≥10cfu/g ≥1cfu/ml ≥10cfu/g ≥1cfu/ml |
| 12. | Bakery & Bakery Products | | | |
| | Bread, Biscuits, Sandwich, Flavoured bakery | Total Plate Count | IS5402 | ≥10cfu/g ≥1cfu/ml |

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|-----|----------------------------|-------------------------|---|--|
| | products | | USFDABAM | ≥10cfu/g ≥1cfu/ml |
| | | Coliformcount | IS5401(Part 1) ISO4832 | ≥10cfu/g ≥1 cfu |
| | | | IS5401(Part 2) ISO4831 | Qualitative (Present/Absent/g/ml) 0.3MPN/gto110MPN/g |
| | | | USFDABAM | ≥10cfu/g ≥1cfu/ml |
| | | Yeast&mould | IS5403 | 3MPN/g to 1100MPN/g ≥10cfu/g ≥1cfu/ml |
| | | | USFDABAM | ≥10cfu/g ≥1cfu/ml |
| | | Salmonella | IS5887(Part 3) ISO:6579-1 | Qualitative (Present/Absent/25g/25ml) |
| | | | USFDABAM | Qualitative (Present/Absent/25g/25ml) |
| | | Shigella | IS5887(Part 7) ISO21567 | Qualitative (Present/Absent/25g/25ml) |
| | | | USFDABAM | Qualitative (Present/Absent/25g/25ml) |
| | | E.coli | IS5887(Part 1) | ≥10cfu/g ≥1cfu/ml |
| | | | | Qualitative (Present/Absent/g/ml) 0.3MPN/gto110MPN/g |
| | | | USFDABAM | ≥10cfu/g ≥1cfu/ml (MPN/g/ml) |
| | | | | 3 MPN/g to1100MPN/g |
| | | Staphylococcus aureus | IS5887-(Part 8/SEC-1) ISO:6888(Part 1) | ≥10cfu/g ≥1cfu/ml |

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|-----|--|-------------------------|---|--|
| | | | USFDABAM | ≥10cfu/g ≥1cfu/ml |
| | | Vibrio cholera | IS5887(Part 5) ISO21872-1 | Qualitative (Present/Absent/25g/25ml) |
| | | | USFDABAM | Qualitative (Present/Absent/25g/25ml) |
| | | Vibrioparahaemolyticus | IS5887(Part 5) ISO21872-1 | Qualitative (Present/Absent/25g/25ml) |
| | | | USFDABAM-2004 (Chapter-9) | Qualitative (Present/Absent/25g/25ml) |
| | | Listeria monocytogenes | IS14988(Part 1) ISO11290(Part1) | Qualitative (Present/Absent/25g/25ml) |
| | | | USFDABAM | Qualitative (Present/Absent/25g/25ml) |
| | | Clostridium perfringens | IS5887(Part4) ISO7937 | ≥10cfu/g ≥1cfu/ml |
| | | | USFDABAM | ≥10cfu/g ≥1cfu/ml |
| | | Bacillus cereus | IS5887(Part 6)- ISO:7932 | ≥10cfu/g ≥1cfu/ml |
| | | | USFDABAM | ≥10cfu/g ≥1cfu/ml |
| 13. | Tea & Tea Products | | | |
| | Tea (Black tea, Green tea, Flavored Tea) | Total Plate Count | IS5402 | ≥10cfu/g ≥1cfu/ml |
| | | | USFDABAM | ≥10cfu/g ≥1cfu/ml |
| | | Coliform count | IS5401(Part 1) ISO:4832 | ≥10cfu/g ≥1cfu/ml |
| | | | IS5401(Part 2) ISO:4831 | (Qualitative) Present/Absent/g/ml |
| | | | | 0.3 MPN/g/ to 110 MPN/g |

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|-----|----------------------------|-------------------------|---|--|
| | | | USFDABAM | ≥10cfu/g ≥1cfu/ml |
| | | | | 3MPN/g to1100MPN/g |
| | | Yeast&mould | IS5403 | ≥10cfu/g ≥1cfu/ml |
| | | | USFDABAM | ≥10cfu/g ≥1cfu/ml |
| | | Salmonella | IS5887(Part 3) ISO6579-1 | Qualitative (Present/Absent/25g/25ml) |
| | | | USFDABAM | Qualitative (Present/Absent/25g/25ml) |
| | | Shigella | IS5887 (Part 7) ISO21567 | Qualitative (Present/Absent/25g/25ml) |
| | | | USFDABAM | Present/Absent/25g/25ml |
| | | E.coli | IS5887(Part 1) | ≥10cfu/g ≥1cfu/ml |
| | | | | Qualitative (Present/Absent/g/ml) |
| | | | | 0.3MPN/g to110MPN/g |
| | | | USFDABAM | ≥10cfu/g ≥1cfu/ml |
| | | | | 3 MPN/g to1100MPN/g |
| | | Staphylococcus aureus | IS5887(Part 8/Sec-1) ISO6888 (Part 1) | ≥10cfu/g ≥1cfu/ml |
| | | | USFDABAM | ≥10cfu/g ≥1cfu/ml |
| | | Vibriocholera | IS5887(Part 5) ISO21872-1 | Qualitative (Present/Absent/25g/25ml) |
| | | | USFDABAM | Qualitative (Present/Absent/25g/25ml) |
| | | Vibrioparahaemolyticus | IS5887(Part 5) ISO21872-1 | Qualitative (Present/Absent/25g/25ml) |
| | | | USFDABAM | Qualitative |

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|------------|---|-------------------------|--|---|
| | | Listeriamonocytogenes | IS14988(Part1) ISO11290(Part 1) USFDABAM | (Present/Absent/25g/25ml) Qualitative (Present/Absent/25g/25ml) Qualitative (Present/Absent/25g/25ml) |
| | | Bacilluscereus | IS5887(Part 6) ISO:7932 USFDABAM | ≥10cfu/g ≥1cfu/ml ≥10cfu/g ≥1cfu/ml |
| | | Clostridiumperfringens | IS5887(Part 4) ISO:7937 USFDABAM | ≥10cfu/g ≥1cfu/ml ≥10cfu/g ≥1cfu/ml |
| 14. | Coffee & Cocoa Products | | | |
| | (Coffee Roasted coffee, Ground coffee, Arabica seeds | TotalPlateCount | IS5402 USFDABAM | ≥10cfu/g ≥1cfu/ml ≥10cfu/g ≥1cfu/ml |
| | | Coliform | IS5401(Part1) ISO4832 IS5401(Part 2) ISO:4831 USFDABAM | ≥10cfu/g ≥1cfu/ml Qualitative (Present/Absent/g/ml) 0.3MPN/g to 110MPN/g ≥10cfu/g ≥1cfu/ml |
| | | Yeast&mould | IS5403 USFDABAM | 3MPN/g/ to 1100MPN/g ≥10cfu/g ≥1cfu/ml ≥10cfu/g ≥1cfu/ml |
| | | | | |
| | | | | |
| | | | | |

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|-----|----------------------------|-------------------------|---|---|
| | | Salmonella | IS5887(Part 3) ISO:6579-1 USFDABAM | Qualitative (Present/Absent/25g/25ml) |
| | | Shigella | IS5887(Part 7) ISO21567 USFDABAM | Qualitative (Present/Absent/25g/25ml) |
| | | E.coli | IS5887(Part 1) | ≥10cfu/g ≥1cfu/ml |
| | | | | Qualitative (Present/Absent/25g/25ml) |
| | | | USFDABAM | 0.3 MPN/g/ to 110MPN/g/ ≥10cfu/g ≥1cfu/ml |
| | | Staphylococcus aureus | IS5887(Part 8/SEC-1) ISO6888(Part 1) USFDABAM- | 3MPN/g/ to 1100MPN/g ≥10cfu/g ≥1cfu/ml |
| | | Vibrio cholera | IS5887(Part 5) ISO21872-1 USFDABAM | Qualitative (Present/Absent/25g/25ml) |
| | | Vibrioparahaemolyticus | IS5887(Part 5) ISO21872-1 USFDABAM | Qualitative (Present/Absent/25g/25ml) |
| | | Listeria monocytogenes | IS14988(Part 1) ISO11290 (Part 1) USFDABAM | Qualitative (Present/Absent/25g/25ml) |
| | | | IS5887(Part 6) | Qualitative (Present/Absent/25g/25ml) |
| | | | | ≥10cfu/g |

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|------------|----------------------------|-------------------------|--|--|
| | | Bacillus cereus | ISO:7932 USFDABAM | ≥1cfu/ml ≥10cfu/g ≥1cfu/ml |
| | | Clostridium perfringens | IS5887(Part 4) ISO7937 USFDABAM | ≥10cfu/g ≥1cfu/ml ≥10cfu/g ≥1cfu/ml |
| 15. | Infant Foods | Total Plate Count | IS54022012 USFDABAM | ≥10cfu/g ≥1cfu/ml ≥10cfu/g ≥1cfu/ml |
| | | Coliform count | IS5401(Part 1) ISO:4832 IS5401(Part 2) ISO:4831 USFDABAM | ≥10cfu/g ≥1cfu/ml Qualitative (Present/Absent/g/ml) 0.3MPN/g to 110MPN/g ≤10cfu/g ≤1cfu/ml |
| | | Yeast & mould | IS5403 USFDABAM | 3 MPN/g to 1100MPN/g ≥10cfu/g ≥1cfu/ml ≥10cfu/g ≥1cfu/ml |
| | | Salmonella | IS5887(Part 3) ISO:6579-1 USFDABAM | Qualitative (Present/Absent/25g/25ml) Qualitative (Present/Absent/25g/25ml) |
| | | Shigella | IS5887(Part 7) ISO21567 US FDABAM | Qualitative (Present/Absent/25g/25ml) Qualitative (Present/Absent/25g/25ml) |
| | | | USFDABAM | Qualitative (Present/Absent/25g/25ml) |

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|-----|----------------------------|-------------------------|---|--|
| | | E.coli | IS5887 (Part 1) | ≥10cfu/g ≥1cfu/ml |
| | | | | Qualitative (Present/Absent/g/ml) |
| | | | USFDABAM | 0.3MPN/g to 110MPN/l ≥10cfu/g ≥1cfu/ml |
| | | Staphylococcus aureus | IS5887(Part 8/SEC1) ISO6888(Part 1) | 3 to 1100MPN/g ≥10cfu/g ≥1cfu/ml |
| | | | USFDABAM- | ≥10cfu/g ≥1cfu/ml |
| | | Vibrio cholera | IS5887(Part 5) ISO21872-1 | Qualitative (Present/Absent/25g/25ml) |
| | | | USFDABAM | Qualitative (Present/Absent/25g/25ml) |
| | | Vibrioparahaemolyticus | IS5887(Part 5) ISO21872-1 | Qualitative (Present/Absent/25g/25ml) |
| | | | USFDABAM | Qualitative (Present/Absent/25g/25ml) |
| | | Listeria monocytogenes | IS14988(Part 1) ISO11290(Part 1) | Qualitative (Present/Absent/25g/25ml) |
| | | | USFDABAM | Qualitative (Present/Absent/25g/25ml) |
| | | Clostridium perfringens | IS5887(Part 4) ISO7937 | ≥10cfu/g ≥1cfu/ml |
| | | | USFDABAM | ≥10cfu/g ≥1cfu/ml |
| | | Bacillus cereus | IS5887(Part 6) ISO 7932 | ≥10cfu/g ≥1cfu/ml |
| | | | USFDABAM | ≥10cfu/g ≥1cfu/ml |

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|-----|-------------------------------|--|---|--|
| II, | WATER | | | |
| 1. | Packagingdrinkingwater | AerobicMicrobialcount-37°C | IS5402 ISO4833 (Part 1) | ≥1cfu/ml |
| | | AerobicMicrobialcount-22°C | IS5402-2012 ISO4833(Part1) | ≥1cfu/ml |
| | | E.coliandColiform | IS15185 ISO9308-1 | Qualitative (Present/Absent/250ml) |
| | | Enterococci (FaecalStreptococci) | IS15186 ISO7899 | Qualitative (Present/Absent/250ml) |
| | | YeastandMouldCount | IS5403 | Qualitative (Present/Absent/250ml) |
| | | Sulphite-Reducinganaerobes (Clostridia) | IS13428 | Qualitative (Present/Absent/50ml) |
| | | Staphylococcus aureus | IS5887(Par2) | Qualitative (Present/Absent/250ml) Qualitative (Present/Absent/250ml) |
| | | Salmonella | IS15187 | Qualitative (Present/Absent/250ml) |
| | | Shigella | IS5887(Part 7) | Qualitative (Present/Absent/250ml) |
| | | Vibrio cholerae | IS5887(Part 5) | Qualitative (Present/Absent/250ml) |
| | | Vibrioparahaemolyticus | IS5887(Part5) | Qualitative (Present/Absent/250ml) |
| 2. | Borewellwater | Totalcoliform | IS1622 | 2 MPN/100ml to 1600MPN/100ml |
| | | FaecalcoliformorThermotolerantcoliform | IS1622 | 2-1600MPN/100ml |
| | | E.coli | IS1622 | 2 MPN/100ml to 1600MPN/100ml |

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|-----|-----------------------------------|------------------------------|---|--|
| | | Faecalstreptococci | IS1622 | 2 MPN/100ml to 1600MPN/100ml |
| 3. | Water for Processed Food Industry | StandardPlatecount | IS1622 | ≥1cfu/ml |
| | | StandardPlatecount | IS4251 | ≥1cfu/ml |
| | | ThermophillicBacterial Count | IS4251 | ≥1cfu/ml |
| | | Coliform | IS4251 | 2 MPN/100ml to 1600MPN/100ml |
| | | ProteolyticPlateCount | IS4251 | ≥1cfu/ml |
| | | LipolyticPlateCount | IS4251 | ≥1cfu/ml |
| 4. | Swimming Pool Water | StandardPlatecount | IS3328 | ≥1cfu/ml |
| | | Coliform | IS3328 | 2 MPN/100ml to 1600MPN/100ml |

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|--------------------------------|---------------------------------------|---|---|--|
| <u>CHEMICAL TESTING</u> | | | | |
| I. | FOOD AND AGRICULTURAL PRODUCTS | | | |
| 1. | Milk & Dairy Products | | | |
| | Milk | Urea | IS 1479 (Part I) | Qualitative |
| | | Starch | IS 1479 (Part I) | Qualitative |
| | | Neutralizers | IS 1479 (Part I) | Qualitative |
| | | Cane Sugar | IS 1479 (Part I) | Qualitative |
| | | Test for Cellulose | FSSAI Manual 1 | Qualitative |
| | | Test for Ammonium Compounds | FSSAI Manual 1 | Qualitative |
| | | Test for Sulphates | FSSAI Manual 1 | Qualitative |
| | | Test for Added glucose | FSSAI Manual 1 | Qualitative |
| | | Test for Sodium Chloride | FSSAI Manual 1 | Qualitative |
| | | Test for Foreign Fat | FSSAI Manual 1 | Qualitative |
| | | Test for Hypochlorite's and Chloramines | FSSAI Manual 1 | Qualitative |
| | | Test for Quaternary Ammonium Compounds | FSSAI Manual 1 | Qualitative |
| | | Anionic Detergents | FSSAI Manual 1 | Qualitative |
| | | Skimmed milk powder | FSSAI Manual 1 | Qualitative |
| | | Formalin | FSSAI Manual 1 | Qualitative |
| | | Hydrogen Peroxide | FSSAI Manual 1 | Qualitative |
| | | Boric Acid and Borates | FSSAI Manual 1 | Qualitative |
| | | Salicylic Acid | FSSAI Manual 1 | Qualitative |
| | | Nitrates | FSSAI Manual 1 | Qualitative |
| | | Milk fat | A.O.A.C, 905.02 | 0.1 g/100g to 10 g/100g |

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|-----------|----------------------------|------------------------------|---|--|
| | | Milk solids not fat | A.O.A.C.990.21 | 1 g/100g to 95 g/100g |
| | | Total Solid | A.O.A.C.990.21 | 1 g/100g to 50g/100g |
| | | Total Nitrogen/Crude Protein | AOAC 991.20 | 0.1 g/100g to 20 g/100g |
| | | Alkalinity of ash | IS 1479 (Part I) | Qualitative |
| | | Titration acidity | IS 1166 | 0.05 g/100g to 10 g/100g |
| 2. | Milk Powder | Moisture | IS 11623 | 0.1 g/100g to 10 g/100g |
| | | Milk fat | IS 11721 | 0.1 g/100g to 30 g /100g |
| | | Milk protein | A.O.A.C. 991.23 | 10 g/100g to 80 g/100g |
| | | Titration acidity | IS 1165 | 0.05 g/100g to 10g/100g |
| | | Total Carbohydrates | IS 1656 | 5 g/100g to 60g/100g |
| | | Lactose | IS 1479 (Part II) | 10 g/100g to 85 g/100g |
| | | Total ash | IS 1165 | 0.05 g/100g to 10 g/100g |
| 3. | Curd | Starch | IS 1479 (Part I) | Qualitative |
| | | Fat | IS 1479 (Part I) | 01 g/100g to 20g/100g |
| | | Total Solids | IS 12333 ISO 6731 | 0.1 g/100g to 50 g/ 100g |
| 4. | Paneer , Cheese | Starch | IS 1479 (Part I) | Qualitative |
| | | Sugar | IS 1479 (Part I) | Qualitative |
| | | Moisture | IS 2785 AOAC 926.08 | 1.0 g/100g to 80 g/ 100g |
| | | Salt | IS 2785 | 01 g/100g to 20g/100g |
| | | Milk fat | IS 2785 | 1.0 g/100g to 80 g/ 100g |
| 5. | Butter | Moisture | A.O.A.C 920.116 | 1 g/100g to 50g/100g |
| | | Milk fat | IS 3507 | 80 g/100g to 90 g/100g |

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|-----|--|----------------------------------|---|--|
| | | Curd | IS 3507 | 0.5 g/100g to 5 g/100g |
| | | PH | IS 3507 | 0.1 to 14 |
| | | Titration Acidity | IS 3507 | 0.05 g/100g to 10 g/100g |
| | | Common salt | IS 3507 | 01 g/100g to 20g/100g |
| 6. | Ghee | Moisture | IS 3508 | 0.02 to 20 g/100g |
| | | Free fatty acid | IS 3508 | 0.1 g/100g to 20 g/100g |
| | | Test for Sesame oil(Boudin Test) | IS 3508 | Qualitative |
| | | Iodine Value | IS 3508 | 5 to 150 |
| | | Unsaponifiable Matter | IS 3508 | 0.1 g/100g to 10 g/100g |
| | | Saponification Value | IS 3508 | 50 to 280 |
| | | Peroxide value | IS 3508 | 0.1 meq/1000g to 50 meq/1000g |
| 7. | Ice cream, Kulfi | Total Solid | IS 2802 | 1.0 g/100g to 80 g/ 100g |
| | | Sucrose | IS 2802 | 5 g/100g to 25 g/100g |
| | | Fat | IS 2802 | 1 g/100g to 50g/100g |
| 2. | Fruits & Vegetable Products | | | |
| | Fruits, vegetables and their Products | pH Value | AOAC 942.15 | 0.1 to 14 |
| | | Ash | AOAC 940.26 | 0.01 g/100g to 10 g/100g |
| | | Total solids | AOAC 920.51 | 1 g/100g to 50g/100g |
| | | Sodium Chloride | IS 3881 FSSAI-Manual 5 | 0.5 g/ 100g to 20 g/100g |
| | | Acid Insoluble Ash | IS 13846 | 0.01 g/100g to 10 g/100g |
| | | Acidity | AOAC 942.15 | 0.1 g/100g to 50 g/100g |
| | | Benzoic acid | FSSAI-Manual-8 | 100 to 500 mg/kg |
| 3. | Nut and Nut Products | | | |
| | Nut and Nut Products | Moisture | AOAC 925.40 | 01g/100g to 20g/100g |

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|-----------|--|---------------------------------------|---|--|
| | | Ash | AOAC 950.49 | 0.1g/100g to 5.0g/100g |
| | | Protein | AOAC 950.48 | 5g/100g to 50 g/100g |
| | | Fat | AOAC 948.22 | 0.5g/100g to 50g/100g |
| | | Crude fiber | AOAC 935.53 | 0.2g/100g to 5.0g/100g |
| 4. | Cereals, Pulses and Cereal Products | | | |
| a. | Whole and Splits of cereals, pulses, oil seeds and their products | Moisture | IS 4333 (Part 2) | 1 g/ 100g to 20 g/100g |
| | | Extraneous matter | IS 4333 (Part 1) | 0.1 g/ 100g to 10 g/100g |
| | | Refractions other than Foreign matter | IS 4333 (Part 1) | 0.1 g/100g to 10 g/100g |
| | | Other edible grains | IS 4333 (Part 1) | 0.1 g/100g to 10 g/100g |
| | | Damaged grains | IS 4333 (Part 1) | 0.1 g/100g to 10 g/100g |
| | | Weevilled grains | IS 4333 (Part 1) | 0.1 g/100g to 10 g/100g |
| b. | Atta(Wheat) | Moisture | IS 1155 | 5 g/100g to 20 g/100g |
| | | Total ash | IS 1155 | 0.05 g/100g to 10 g/100g |
| | | Acid insoluble Ash | IS 1155 | 0.1 g/100g to 20 g/100g |
| | | Dry Gluten | IS 1155 | 1.0 g/100g to 35 g/100g |
| | | Alcoholic acidity | IS 1155 | 0.01 g/100g to 10 g/100g |
| | | Total Protein | AOAC 979.09 | 5 g/100g to 50 g/100g |
| | | Crude Fiber | IS 1155 | 0.2 g/100g to 5 g/100g |
| c. | Maida | Moisture | IS 1009 | 0.1 g/100g to 20 g/100g |
| | | Total ash | IS 1009 | 0.05 g/100g to 10 g/100g |
| | | Acid insoluble Ash | IS 1009 | 0.01 g/100g to 5 g/100g |
| | | Dry Gluten | IS 1009 | 1.0 g/100g to 35 g/100g |
| | | Alcoholic acidity | IS 1009 | 0.01 g/100g to 10 g/100g |
| | | Total Protein | AOAC 979.09 | 5 g/100g to 50 g/100g |
| d. | Suji or Rava | Moisture | IS 1010 | 0.1 g/100g to 20 g/100g |
| | | Total ash | IS 1010 | 0.01 g/100g to 10 g/100g |
| | | Acid insoluble Ash | IS 1010 | 0.01 g/100g to 5 g/100g |
| | | Gluten | IS 1010 | 1.0 g/100g to 35 g/100g |
| | | Alcoholic acidity | IS 1010 | 0.01 g/100g to 10 g/100g |

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| | | Total Protein | AOAC 979.09 | 5 g/100g to 50 g/100g |
| 5 | Bakery & confectionery products | | | |
| a. | Biscuits | Moisture | IS 1011 | 1 g/100g to 5 g/100g |
| | | acidity of extracted fat | IS 1011 | 0.1 g/100g to 20 g/100g |
| | | Acid Insoluble ash | IS 1011 | 0.01 g/100g to 5 g/100g |
| b. | Bread and bakery products | Alcoholic acidity | IS 12711 | 0.01 g/100g to 10 g/100g |
| | | Moisture | IS 12711 | 1 g/100g to 50 g/100g |
| | | Acid Insoluble Ash | IS 12711 | 0.01 g/100g to 2 g/100g |
| | | Reducing Sugar | IS 6287 | 5 g/100g to 20 g/100g |
| c. | Confectionery, Chocolate and cookies | Total Protein | IS 6287 | 1 g/100g to 50 g/100g |
| | | Sulphated Ash | IS 6287 | 0.01 g/100g to 5 g/100g |
| | | Acid Insoluble Ash | IS 6287 | 0.01 g/100g to 5 g/100g |
| | | Fat | IS 6287 | 1 g/100g to 50 g/100g |
| | | Total Sugar | IS 6287 | 5 g/100g to 50 g/100g |
| | | Sucrose | IS6287 | 5 g/100g to 40 g/100g |
| | | Lactose | IS1479 (Part2) | 1 g/100g to 30 g/ 100g |
| 6. | Sugar & sugar products | | | |
| | Sugar | Moisture | IS 15279 | 0.01 g/100g to 10 g/100g |
| | | Total Ash | IS 15279 | 0.01g/100g to 5 g/100g |
| | | Sulphur Dioxide | IS 15279 | 1 g/100g to 100 mg/kg |
| | | Sulphated Ash | IS 15279 | 0.01g/100g to 5 g/100g |
| 7. | Tea & Coffee, Cocoa products | | | |
| a. | Tea and its products | Moisture | IS 13853 | 0.1g/100g to 25 g/100g |
| | | Total Ash | IS 13854 | 0.1g/100g to 10 g/100g |
| | | Acid-insoluble ash | IS 13857 | 0.01g/100g to 5 g/100g |
| | | Water Soluble Ash | IS 13855 | 1.0g/100g to 80 g/100g |

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| | | Alkalinity of Water soluble Ash | IS 13856 | 0.1g/100g to 10 g/100g |
| | | Water extract or Aqueous Extract | IS 13862 | 0.5g/100g to 50 g/100g |
| b. | Coffee, cocoa and their products | Crude Fibre | IS10226(Part I) | 0.1g/100g to 50 g/100g |
| | | Moisture | I.S 3077 | 2g/100g to 5 g/100g |
| | | Total Ash | I.S 3077 | 3 g/100g to 6 g/100g |
| | | Acid insoluble ash | I.S 3077 | 0.01g/100g to 0.1 g/100g |
| | | Water Soluble Ash | I.S 3077 | 25 g/100g to 90 g/100g |
| | | Petroleum Ether extract | I.S 3077 | 1 to 50 g/100g |
| | | Water extract or Aqueous Extract | IS 13862 | 10 g/100g to 50 g/100g |
| 8. | Spices And Condiments | | | |
| a. | Cardamom Whole ,Cardamom Powder, Cloves Powder, Coriander Whole& powder Ginger Whole & Powder Mixed Masala Curry, Asafotida, Dehydrated Garlic | Extraneous matter | IS 1797 | 0.1 g/100g to 10 g/100g |
| | | Moisture | IS 1797 | 4 g/100g to 20 g/100g |
| | | Total ash | IS 1797 | 1 g/100g to 30 g/100g |
| | | Acid insoluble Ash | IS 1797 | 0.1g/100g to 20 g/100g |
| | | Water Insoluble Ash | IS 1797 | 0.1g/100g to 20 g/100g |
| | | Volatile oil content | IS 1797 | 1 g/100g to 30 g/100g |
| | | Non-volatile ether extract | IS 1797 | 0.5 g/100g to 40 g/100g |
| | | Cold Water Soluble Extract | IS 1797 | 0.05 g/100g to 90 g/100g |
| | | Alcoholic Soluble Extract | IS 1797 | 0.05 g/100g to 90 g/100g |
| | | Crude fibre | IS 1797 | 1 g/100g to 30 g/100g |
| b. | Chilly Whole, Powder | Color value | AOAC 971.26 | 10 to 150 |
| c. | Turmeric Whole, | Lead chromate | IS 1797 | Qualitative |

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|------------|--|--|---|--|
| | Powder | Curcumin content | ASTA | 1 g/100g to 10 g/100g |
| | | Starch | IS 4706 (Part2) | 45 g/100g to 70 g/100g |
| d. | Pepper Whole, Powder | Piperine Content | AOAC 987.07 | 1 g/100g to 10 g/100g |
| e. | Edible Salt | | | |
| f. | Edible Salt, Common Salt, Iodized Salt | Moisture | IS 253 | 0.05 g/100g to 20 g/100g |
| | | Water Insoluble Matter | IS 253 | 0.1 g/100g to 10 g/100g |
| | | Chloride (as NaCl) | IS 253 | 0.1 g/100g to 99 g/100g |
| | | Matter Soluble In Water Other than Sodium Chloride | IS 253 | 0.1 g/100g to 10 g/100g |
| 9. | Oils and Fats | | | |
| | Oils and Fats | Moisture & Volatile Matter | IS 548 (Part -I) | 0.01 g/100g to 20 g/100g |
| | | Saponification value | IS 548 (Part I) | 50 to 280 |
| | | Iodine value (Wij's method) | IS 548 (Part -I) | 1 to 150 |
| | | Acid value | IS 548(PartI) | 0.01 to 10 |
| | | Unsaponifiable matter | IS 548 (Part I) | 0.1 g/100g to 10 g/100g |
| | | Insoluble Impurities | IS 548(Part I) | 0.01 g/100g to 20 g/100g |
| | | Peroxide Value | IS 548(Part I) | 0.5 meq/1000g to 80 meq/1000g |
| | | Specific Gravity | IS548(Part I) | 0.1 to 5 |
| II. | MARINE /AQUA CULTURE FOOD PRODUCTS | | | |
| 1. | Fish and Fish products, Fresh & Frozen Sea Foods and their products | TVBN | EC No. 2074:2005 | 10mg/kg to 150mg/kg |
| | | Phosphorous | IS 5960 (Part16) | 1000mg/kg to 5000mg/kg |
| | | Moisture | AOAC 952.08 | 0.1g/100g to 90g/100g |
| | | Ash | AOAC 952.08 | 0.5g/100g to 100g/100g |
| | | Fat | AOAC 948.15 | 0.1g/100g to 10g/100g |
| | | Salt | AOAC 937.09 | 0.1g/100g to 5g/100g |

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| III. | ANIMAL FOOD AND FEEDS | | | |
| 1. | Animal Feed / Poultry Feed/ Shrimp Feed/ Fish Feed | Moisture | IS 7874 (Part I) | 1 g/100g to 25 g/100g |
| | | Total Ash | IS 7874 (Part I) | 0.1 g/100g to 10 g/100g |
| | | Acid Insoluble Ash | IS 7874 (Part I) | 0.1 g/100g to 10 g/100g |
| | | Crude Protein | IS 7874 (Part I) | 5 g/100g to 80 g/100g |
| | | Urea Nitrogen | IS 7874 (Part I) | 0.1 g/100g to 40 g/100g |
| | | Crude fat | IS 7874 (Part I) | 0.1 g/100g to 25 g/100g |
| | | TVBN | EC-2074 | 10 mg/ kg to 200 mg/ kg |
| | Crude Fiber | IS 7874 (Part I) | 1 g/100g to 25 g/100g | |