

Laboratory Food Safety and Analytical Quality Control Laboratory-Christy
Friedgram Industry, A2 & A3, SIDCO Industrial Estate, Andipalayam,
Tiruchengode-TK, Namakkal-District, Tamil Nadu

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-7537 (in lieu of T-1367, T-2904)

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| Sl. | Product / Material of Test | Specific Test Performed | Test Method Specification against which tests are performed | Range of Testing / Limits of Detection |
|-----|----------------------------|-------------------------|---|--|
|-----|----------------------------|-------------------------|---|--|

BIOLOGICAL TESTING

| I. | FOOD AND AGRICULTURAL PRODUCTS | | | |
|----|---|---|--|---|
| 1. | Cereal and cereal based products : Pulses & legumes, Foods for infants nutrition Amylase rich energy food –I & II, energy foods and it's raw materials, Complementary weaning food containing amylase activity and it's raw materials, Blend of critically processed materials, processed Cereal based complementary food, Protein rich food Supplements for infants and preschool children, Milk cereal based complementary foods and other ICDS food supplements. | Total plate count | IS 5402 :2012 Second revision | ≥ 10 cfu/g (or) cfu/ml |
| | | Coliform count | IS 5401 (Part-1):2012 Second revision | ≥10 cfu/g (or) cfu/ml |
| | | Yeast and mould count | IS 5403 :1999 (RA 2009) First Revision | ≥ 10 cfu/g (or) cfu/ml |
| | | Escherichia coli (Plate count method/ MPN Method) | IS 5887:1976 (Part-1) (RA 2013) | Qualitative(Present/Absent in 25g/25 ml) ≥10 cfu/g ≥ 3 MPN / ml MPN/g |
| | | Shigella | IS 5887(Part-7):1999 (RA -2013) | Present/Absent in 25 g/ 25 ml |
| | | Salmonella | IS 5887(Part-3):1999 (RA -2013) | Present/Absent in 25 g/ 25 ml |
| | | Staphylococcus aureus | IS 5887(Part-2):1976 (RA -2013) | Present or Absent in 25g /25 ml (Qualitative) ≥ 10 cfu/g (Quantitative) (or) ≥10 cfu/ml |
| | | Faecal Streptococci | IS 5887(Part-2):1976 (RA -2013) | Qualitative (Present/Absent in 25g/ 25 ml) ≥10 cfu/g ≥10 cfu/ml ≥ 3 MPN / ml MPN/g |
| | Presumptive Bacillus Cereus | IS 5887(Part-6) :2012 (RA 2012) | ≥ 10 cfu/g (or) cfu/ml | |

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|-----|--|--|---|---|
| 2. | Ready To Eat Savouries (Including Extruded Snacks) | Total plate count | IS 5402 :2012 Second revision | ≥ 10 cfu/g (or) cfu/ml |
| | | Coliform count | IS 5401(Part-1):2012 Second revision | ≥10 cfu/g (or) cfu/ml |
| | | Yeast and mould count | IS 5403 :1999 (RA 2009) First Revision | ≥ 10 cfu/g (or) cfu/ml |
| | | Escherichia coli (Plate count method/ MPN Method) | IS 5887(Part-1) :1976 (RA 2013) | Qualitative (Present/Absent in 25g/ 25 ml) ≥10 cfu/g ≥ 3 MPN / ml MPN/g |
| | | Shigella | IS 5887(Part-7):1999 (RA -2013) | Qualitative (Present/Absent in 25 g/ 25 ml) |
| | | Salmonella | IS 5887(Part-3):1999 (RA -2013) | Qualitative (Present/Absent in 25 g/ 25 ml) |
| | | Staphylococcus aureus (Plate count method /MPN Method) | IS 5887(Part-2):1976 (RA -2013) | Qualitative (Present or Absent in 25g /25 ml) ≥ 10 cfu/g ≥10 cfu/ml |
| | | Faecal Streptococci (plate count method/MPN Method) | IS 5887(Part-2):1976 (RA 2013) | Qualitative (Present/Absent in 25g/ 25 ml) ≥10 cfu/g ≥10 cfu/ml ≥ 3 MPN / ml MPN/g |
| | | Presumptive Bacillus Cereus | IS 5887(Part-6):2012 (RA 2012) | ≥ 10 cfu/g (or) cfu/ml |
| 3. | Fruits And Vegetables And Its Products | Total plate count | IS 5402:2012 Second revision | ≥ 10 cfu/g (or) cfu/ml |

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|-----|--|---|---|--|
| | | Coliform count | IS 5401(Part-1):2012 Second revision | ≥10 cfu/g (or) cfu/ml |
| | | Yeast and mould count | IS 5403 :1999 (RA 2009) First Revision | ≥ 10 cfu/g (or) cfu/ml |
| | | Escherichia coli (Plate count method/ MPN Method) | IS 5887(Part-1):1976 (RA 2013) | Qualitative (Present/Absent in 25g/ 25 ml) ≥10 cfu/g ≥ 3 MPN / ml MPN/g |
| | | Shigella | IS 5887(Part-7):1999 (RA 2013) | Qualitative (Present/Absent in 25 g/ 25 ml) |
| | | Salmonella | IS 5887(Part-3):1999 (RA 2013) | Qualitative (Present/Absent in 25 g/ 25 ml) |
| | | Staphylococcus aureus Plate count method /MPN Method) | IS 5887(Part-2):1976 (RA 2013) | Qualitative (Present or Absent in 25g /25 ml) ≥ 10 cfu/g ≥10 cfu/ml |
| | | Faecal Streptococci (Plate count method /MPN Method) | IS 5887(Part-2):1976 (RA -2013) | Qualitative (Present/Absent in 25g/ 25 ml) ≥10 cfu/g ≥10 cfu/ml ≥ 3 MPN / ml MPN/g |
| | | Presumptive Bacillus Cereus | IS 5887(Part-6):2012 (RA 2012) | ≥ 10 cfu/g (or) cfu/ml |
| 4. | Salt Spices Condiments And Related Products | Total plate count | IS 5402:2012 Second revision | ≥ 10 cfu/g (or) cfu/ml |
| | | Coliform count | IS 5401(Part-1):2012 Second revision | ≥10 cfu/g (or) cfu/ml |
| | | Yeast and mould count | IS 5403 :1999 (RA 2009) First Revision | ≥ 10 cfu/g (or) cfu/ml |

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|-----|--|--|---|---|
| | | Escherichia coli (Plate count method /MPN Method) | IS 5887(Part-1):1976 (RA 2013) | Qualitative (Present/Absent in 25g/ 25ml) ≥10 cfu/g ≥ 3 MPN / ml MPN/g |
| | | Shigella | IS5887(Part-7):1999 (RA -2013) | Qualitative (Present/Absent in 25 g/ 25 ml) |
| | | Salmonella | IS 5887(Part-3):1999 (RA -2013) | Qualitative (Present/Absent in 25 g/ 25 ml) |
| | | Staphylococcus aureus (Plate count method /MPN Method) | IS5887(Part-2):1976 (RA -2013) | Qualitative (Present or Absent in 25g /25 ml) ≥ 10 cfu/g ≥10 cfu/ml |
| | | Faecal Streptococci (Plate count method /MPN Method) | IS 5887(Part-2):1976 (RA -2013) | Qualitative (Present/Absent in 25g/ 25 ml) ≥10 cfu/g ≥10 cfu/ml ≥ 3 MPN / ml MPN/g |
| | | Presumptive Bacillus Cereus | IS 5887(Part-6):2012 (RA 2012) | ≥ 10 cfu/g (or) cfu/ml |
| 5. | Bakery products & confectionary | Total plate count | IS 5402:2012 Second revision | ≥ 10 cfu/g (or) cfu/ml |
| a. | Cookies, Chikki | Coliform count | IS 5401(Part-1):2012 Second revision | ≥10 cfu/g (or) cfu/ml |
| | | Yeast and mould count | IS 5403:1999 (RA 2009) First Revision | ≥ 10 cfu/g (or) cfu/ml |
| | | Escherichia coli (Plate count method /MPN Method) | IS 5887(Part-1):1976 (RA 2013) | Qualitative (Present/Absent in 25g/ 25 ml) ≥10 cfu/g |

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|-----------|--|--|---|--|
| | | | | ≥ 3 MPN / ml MPN/g |
| | | Shigella | IS 5887(Part-7):1999 (RA 2013) | Qualitative (Present/Absent in 25 g/ 25 ml) |
| | | Salmonella | IS 5887(Part-3):1999 (RA 2013) | Qualitative (Present/Absent in 25 g/ 25 ml) |
| | | Staphylococcus aureus (Plate count method /MPN Method) | IS 5887(Part-2):1976 (RA 2013) | Qualitative (Present or Absent in 25g /25 ml) ≥ 10 cfu/g ≥10 cfu/ml |
| | | Faecal Streptococci (Plate count method /MPN Method) | IS 5887(Part-2):1976 (RA -2013) | Qualitative Present/Absent in 25g/25 ml ≥10 cfu/g (or) ≥10 cfu/ml ≥ 3 MPN / ml MPN/g |
| | | Presumptive Bacillus Cereus | IS 5887(Part-6):2012 (RA 2012) | ≥ 10 cfu/g (or) cfu/ml |
| 6. | Animal Feeds & Feeding Stuffs | Total plate count | IS 5402:2012 Second revision | ≥ 10 cfu/g (or) cfu/ml |
| | | Coliform count | IS 5401(Part-1):2012 Second revision | ≥10 cfu/g (or) cfu/ml |
| | | Yeast and mould count | IS 5403:1999 (RA 2009) First Revision | ≥ 10 cfu/g (or) cfu/ml |
| | | Escherichia coli (Plate count method /MPN Method) | IS 5887(Part-1):1976 (RA 2013) | Qualitative (Present/Absent in 25g/ 25 ml) ≥10 cfu/g ≥ 3 MPN / ml MPN/g |
| | | Shigella | IS5887(Part-7):1999 (RA 2013) | Qualitative (Present/Absent in 25 g /25 ml) |

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|-----------|-------------------------------------|--|---|---|
| | | Salmonella | IS 5887(Part-3):1999 (RA 2013) | Qualitative (Present/Absent in 25 g /25 ml) |
| | | Staphylococcus aureus (Plate count method /MPN Method) | IS 5887(Part-2):1976 (RA 2013) | Qualitative (Present or Absent in 25g /25 ml ≥ 10 cfu/g ≥10 cfu/ml) |
| | | Faecal Streptococci (Plate count method /MPN Method) | IS 5887(Part-2):1976 (RA 2013) | Qualitative (Present/Absent in 25g/ 25 ml) ≥10 cfu/g (or) ≥10 cfu/ml ≥ 3 MPN / ml MPN/g |
| | | Presumptive Bacillus Cereus | IS 5887(Part-6):2012 (RA 2012) | ≥ 10 cfu/g (or) cfu/ml |
| 7. | Coconut And Coconut Products | Total plate count | IS 5402:2012 Second revision | ≥ 10 cfu/g (or) cfu/ml |
| | | Coliform count | IS5401(Part-1):2012 Second revision | ≥10 cfu/g (or) cfu/ml |
| | | Yeast and mould count | IS 5403:1999 (RA 2009) First Revision | ≥ 10 cfu/g (or) cfu/ml |
| | | Escherichia coli (Plate count method /MPN Method) | IS 5887(Part-1):1976 (RA 2013) | Qualitative (Present/Absent in 25g/ 25 ml) ≥10 cfu/g ≥ 3 MPN / ml MPN/g |
| | | Shigella | IS 5887(Part-7):1999 (RA 2013) | Qualitative (Present/Absent in 25 g/ 25 ml) |
| | | Salmonella | IS 5887(Part-3):1999 (RA 2013) | Qualitative (Present/Absent in 25 g/ 25 ml) |

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|-----------|---|--|---|---|
| | | Staphylococcus aureus (Plate count method /MPN Method) | IS 5887(Part-2):1976 (RA 2013) | Qualitative (Present or Absent in 25g /25 ml) ≥ 10 cfu/g ≥10 cfu/ml |
| | | Faecal Streptococci (Plate count method /MPN Method) | IS 5887(Part-2):1976 (RA 2013) | Qualitative (Present/Absent in 25g/ 25 ml) ≥10 cfu/g ≥10 cfu/ml ≥ 3 MPN / ml MPN/g |
| | | Presumptive Bacillus Cereus | IS 5887(Part-6):2012 (RA 2012) | ≥ 10 cfu/g (or) cfu/ml |
| 8. | Egg And Egg Products Whole Raw Egg , Egg curry and Pickled Egg | Total plate count | IS 5402:2012 Second revision | ≥ 10 cfu/g (or) cfu/ml |
| a. | | Coliform count | IS 5401(Part-1):2012 Second revision | ≥10 cfu/g (or) cfu/ml |
| | | Yeast and mould count | IS 5403:1999 (RA 2009) First Revision | ≥ 10 cfu/g (or) cfu/ml |
| | | Escherichia coli (Plate count method /MPN Method) | IS 5887(Part-1):1976 (RA 2013) | Qualitative (Present/Absent in 25g/ 25 ml) ≥10 cfu/g ≥ 3 MPN / ml MPN/g |
| | | Shigella | IS 5887(Part-7):1999 (RA 2013) | Qualitative (Present/Absent in 25 g/ 25 ml) |
| | | Salmonella | IS:5887(Part-3):1999 (RA 2013) | Qualitative (Present/Absent in 25 g/ 25 ml) |

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|-----------|--|--|---|---|
| | | Staphylococcus aureus (Plate count method /MPN Method) | IS 5887(Part-2):1976 (RA 2013) | Qualitative (Present or Absent in 25g /25 ml) ≥ 10 cfu/g ≥10 cfu/ml |
| | | Faecal Streptococci (Plate count method /MPN Method) | IS 5887(Part-2):1976 (RA 2013) | Qualitative (Present/Absent in 25g/ 25 ml) ≥10 cfu/g (or) ≥10 cfu/ml ≥ 3 MPN / ml MPN/g |
| | | Presumptive Bacillus Cereus | IS 5887(Part-6):2012 (RA 2012) | ≥ 10 cfu/g (or) cfu/ml |
| 9. | Fortified Foods | Total plate count | IS 5402:2012 Second revision | ≥ 10 cfu/g (or) cfu/ml |
| a. | Double Fortified Atta, Fortified Salt And Fortified Maida Fortified Rice, Fortified Rice Kernels, Fortified Vegetable Oil | Coliform count | IS 5401(Part-1):2012 Second revision | ≥10 cfu/g (or) cfu/ml |
| | | Yeast and mould count | IS 5403:1999 (RA 2009) First Revision | ≥ 10 cfu/g (or) cfu/ml |
| | | Escherichia coli (Plate count method /MPN Method) | IS 5887(Part-1):1976 (RA 2013) | Qualitative (Present/Absent in 25g/ 25 ml) ≥10 cfu/g) ≥ 3 MPN / ml MPN/g |
| | | Shigella | IS 5887(Part-7):1999 (RA 2013) | Qualitative (Present/Absent in 25 g/ 25 ml) |
| | | Salmonella | IS 5887(Part-3):1999 (RA 2013) | Qualitative (Present/Absent in 25 g/ 25 ml) |
| | | Staphylococcus aureus (Plate count method /MPN Method) | IS5887(Part-2):1976 (RA 2013) | Qualitative (Present or Absent in 25g /25 ml) ≥ 10 cfu/g ≥10 cfu/ml |

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|-----|--------------------------------------|--|---|---|
| | | Faecal Streptococci (Plate count method /MPN Method) | IS 5887(Part-2):1976 (RA 2013) | Qualitative (Present/Absent in 25g/ 25 ml) ≥10 cfu/g ≥10 cfu/ml ≥ 3 MPN / ml MPN/g |
| | | Presumptive Bacillus Cereus | IS 5887(Part-6):2012 (RA 2012) | ≥ 10 cfu/g (or) cfu/ml |
| 10. | Sweeteners including sugar & Jaggery | Total plate count | IS 5402:2012 Second revision | ≥ 10 cfu/g (or) cfu/ml |
| | | Coliform count | IS 5401(Part-1):2012 Second revision | ≥10 cfu/g (or) cfu/ml |
| | | Yeast and mould count | IS 5403:1999 (RA 2009) First Revision | ≥ 10 cfu/g (or) cfu/ml |
| | | Escherichia coli (Plate count method /MPN Method) | IS 5887(Part-1):1976 (RA 2013) | Qualitative (Present/Absent in 25g/ 25 ml) ≥10 cfu/g ≥ 3 MPN / ml MPN/g |
| | | Shigella | IS 5887(Part-7):1999 (RA 2013) | Qualitative (Present/Absent in 25 g/ 25 ml) |
| | | Salmonella | IS 5887(Part-3):1999 (RA 2013) | Qualitative (Present/Absent in 25 g/ 25 ml) |
| | | Staphylococcus aureus (Plate count method /MPN Method) | IS 5887(Part-2):1976 (RA 2013) | Qualitative (Present or Absent in 25g /25 ml) ≥ 10 cfu/g ≥10 cfu/ml |

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|-----|--------------------------------------|--|---|---|
| | | Faecal Streptococci (Plate count method /MPN Method) | IS 5887(Part-2):1976 (RA 2013) | Qualitative (Present/Absent in 25g/ 25 ml) ≥10 cfu/g ≥10 cfu/ml ≥ 3 MPN / ml MPN/g |
| | | Presumptive Bacillus Cereus | IS 5887(Part-6):2012 (RA 2012) | ≥ 10 cfu/g (or) cfu/ml |
| 11. | Fats ,Oils &Fat Emulsions | Total plate count | IS 5402 :2012 Second revision | ≥ 10 cfu/g (or) cfu/ml |
| | | Coliform count | IS 5401(Part-1):2012 Second revision | ≥10 cfu/g (or) cfu/ml |
| | | Yeast and mould count | IS 5403:1999 (RA 2009) First Revision | ≥ 10 cfu/g (or) cfu/ml |
| | | Escherichia coli (Plate count method /MPN Method) | IS 5887(Part-1):1976 (RA 2013) | Qualitative (Present/Absent in 25g/ 25 ml) ≥10 cfu/g ≥ 3 MPN / ml MPN/g |
| | | Shigella | IS 5887(Part-7):1999 (RA 2013) | Qualitative (Present/Absent in 25 g/ 25 ml) |
| | | Salmonella | IS 5887(Part-3):1999 (RA 2013) | Qualitative (Present/Absent in 25 g/ 25 ml) |
| | | Staphylococcus aureus (Plate count method /MPN Method) | IS 5887(Part-2):1976 (RA 2013) | Qualitative (Present or Absent in 25g /25 ml) ≥ 10 cfu/g ≥10 cfu/ml |

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|------------|--|--|---|---|
| | | Faecal Streptococci (Plate count method /MPN Method) | IS5887(Part-2):1976 (RA 2013) | Qualitative (Present/Absent in 25g/ 25 ml) ≥10 cfu/g ≥10 cfu/ml ≥ 3 MPN / ml MPN/g |
| | | Presumptive Bacillus Cereus | IS 5887(Part-6):2012 (RA 2012) | ≥ 10 cfu/g (or) cfu/ml |
| 12. | Dairy Products | Total plate count | IS 5402:2012 Second revision | ≥ 10 cfu/g (or) cfu/ml |
| a | Raw milk, Pasteurized milk, Condensed Milk, Milk Powder, Skimmed Milk Powder, Whole Milk Powder | Coliform count | IS 5401(Part-1):2012 Second revision | ≥10 cfu/g (or) cfu/ml |
| | | Yeast and mould count | IS 5403:1999 (RA 2009) First Revision | ≥ 10 cfu/g (or) cfu/ml |
| | | Escherichia coli (Plate count method /MPN Method) | IS 5887(Part-1):1976 (RA 2013) | Qualitative (Present/Absent in 25g/25 ml) ≥10 cfu/g ≥ 3 MPN / ml MPN/g |
| | | Shigella | IS 5887(Part-7):1999 (RA 2013) | Qualitative (Present/Absent in 25 g/25 ml) |
| | | Salmonella | IS 5887(Part-3):1999 (RA 2013) | Qualitative (Present/Absent in 25 g/25 ml) |
| | | Staphylococcus aureus (Plate count method /MPN Method) | IS 5887(Part-2):1976 (RA 2013) | Qualitative (Present or Absent in 25g /25 ml) ≥ 10 cfu/g ≥10 cfu/ml |

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| | | Faecal Streptococci (Plate count method /MPN Method) | IS 5887(Part-2):1976 (RA 2013) | Qualitative (Present/Absent in 25g/25 ml) ≥10 cfu/g ≥10 cfu/ml ≥ 3 MPN / ml MPN/g |
| | | Presumptive Bacillus Cereus | IS :5887(Part-6):2012 (RA 2012) | ≥ 10 cfu/g (or) cfu/ml |
| II. | WATER | | | |
| 1. | Potable water, Drinking water , Bore well water, Packaged drinking water, RO Water, Demineralised Water, Water used in food processing industry, distilled and double distilled water | Standard Plate Count | IS 1622:1981 (RA 2009) | ≥ 1 cfu/g (or) cfu/ml |
| | | Coliform count | IS 5401(Part-1):2012 Second revision | ≥ 1 cfu/g (or) cfu/ml |
| | | Escherichia coli (Plate count method /MPN Method) | IS 5887(Part-1):2012 (RA 2013) | Qualitative (Present/Absent in 25g/ 25 ml) ≥10 cfu/g ≥ 3 MPN / ml MPN/g |
| | | Salmonella | IS 5887(Part-3):1999 (RA 2013) | Qualitative (Present /Absent in 25 g / 25 ml) |
| | | Shigella | IS 5887(Part-7):1999 (RA 2013) | Qualitative (Present /Absent in 25 g / 25 ml) |
| | | Staphylococcus aureus | IS 5887(Part-2):1976 (RA 2013) | Qualitative (Present or Absent in 25g /25 ml) ≥ 10 cfu/g (or) ≥10 cfu/ml |
| | | Faecal Streptococci (Plate count method /MPN Method) | IS 5887(Part-2):1976 (RA 2013) | Qualitative (Present/Absent in 25g/25 ml) ≥10 cfu/g ≥10 cfu/ml ≥ 3 MPN / ml MPN/g |

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| <u>CHEMICAL TESTING</u> | | | | |
| I. | DRUGS & PHARMACEUTICALS | | | |
| 1. | VITAMINS | | | |
| a. | Vitamin B1 (Thiamine Mononitrate) | Moisture | Indian Pharmacopoeia 2018 (Volume-I) | 0.05 % to 5 % |
| | | pH | Indian Pharmacopoeia 2018 (Volume-I) | 1 to 14 |
| | | Sulphated Ash | Indian Pharmacopoeia 2018 (Volume-I) | 0.03 % to 1 % |
| | | Assay | Indian Pharmacopoeia 2018 (Volume-III) | 50 % to 100% |
| b. | Vitamin B1 (Thiamine Hydrochloride) | Moisture | Indian Pharmacopoeia 2018 (Volume-I) | 0.5 % to 10 % |
| | | pH | Indian Pharmacopoeia 2018 (Volume-I) | 1 to 14 |
| | | Sulphated Ash | Indian Pharmacopoeia 2018 (Volume-I) | 0.01 % to 1% |
| | | Assay | Indian Pharmacopoeia 2018 (Volume-III) | 50% to 100% |
| c. | Vitamin A | Assay | Indian Pharmacopoeia 2018 (Volume-III) | 50 % to 100% |
| d. | Vitamin B2(Riboflavin) | Moisture | Indian Pharmacopoeia 2018 (Volume-I) | 0.5% to 5% |
| | | Sulphated Ash | Indian Pharmacopoeia 2018 (Volume-I) | 0.03% to 1% |
| | | Assay | Indian Pharmacopoeia 2018 (Volume-III) | 50% to 100% |
| | | pH | Indian Pharmacopoeia 2018(Volume-I) | 1 to 14 |

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|-----|----------------------------------|-------------------------|---|--|
| e. | Vitamin B3(Niacin) | Moisture | Indian Pharmacopoeia 2018 (Volume-I) | 0.5% to 20% |
| | | Sulphated Ash | Indian Pharmacopoeia 2018 (Volume-I) | 0.5% to 5% |
| | | Assay | Indian Pharmacopoeia 2018 (Volume-III) | 50% to 100% |
| f. | Vitamin C (Ascorbic Acid) | Sulphated ash | Indian Pharmacopoeia 2018 (Volume-I) | 0.5% to 5% |
| | | Assay | Indian Pharmacopoeia 2018 (Volume-II) | 50% to 100% |
| | | pH | Indian Pharmacopoeia 2018 (Volume-I) | 1 to 14 |
| g. | Vitamin B12 (Cynocobalamine) | Moisture | Indian Pharmacopoeia 2018 (Volume-I) | 0.5% to 20% |
| | | Assay | Indian Pharmacopoeia 2018 (Volume-II) | 50% to 100% |
| h. | Folic Acid | Sulphated Ash | Indian Pharmacopoeia 2018 (Volume-I) | 0.05 % to 1% |
| | | Assay | CFI/FSAQCL/INS/STP/146/02.12.2017/Issue No.1 | 50% to 100% |
| 2. | Minerals | | | |
| a. | Ferrous Sulphate | pH | Indian Pharmacopoeia 2018 (Volume-I) | 1 to 14 |
| | | Assay | Indian Pharmacopoeia 2018 (Volume-II) | 50% to 100% |
| b. | Sodium Bicarbonate | Assay | Indian Pharmacopoeia 2018 (Volume-III) | 50% to 100% |
| c. | Sodium Hexa Meta Phosphate(SHMP) | pH | CFI/FSAQCL/INS/STP/147/20.11.2017/Issue No.1 | 5% to 10 |
| | | Assay | CFI/FSAQCL/INS/STP/148/20.11.2017/Issue No.1 | 50% to 70% |

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|-----|--|-------------------------------------|---|--|
| d. | Zinc Sulphate | pH | Indian Pharmacopoeia 2018 (Volume-I) | 1 to 14 |
| | | Assay | Indian Pharmacopoeia 2018 (Volume-III) | 50% to 100% |
| e. | Citric Acid | Sulphated Ash | Indian Pharmacopoeia 2018 (Volume-I) | 0.05% to 1% |
| | | Assay | Indian Pharmacopoeia 2018 (Volume-II) | 50% to 100% |
| f. | Calcium carbonate | Moisture | Indian Pharmacopoeia 2018 (Volume-I) | 0.5% to 5% |
| | | Substances Insoluble in acetic acid | Indian Pharmacopoeia 2018 (Volume-II) | 0.05% to 0.5% |
| | | Assay | Indian Pharmacopoeia 2018 (Volume-II) | 50% to 100% |
| g. | Potassium Iodide | Assay | Indian Pharmacopoeia 2018 (Volume-III) | 50% to 100% |
| | | Moisture | Indian Pharmacopoeia 2018 (Volume-I) | 0.5% to 5% |
| h. | Potassium Iodate | Assay | CFI/FSAQCL/INS/STP/150/20.11.2017/Issue No.1 | 50% to 100% |
| II. | FOOD AND AGRICULTURAL PRODUCTS | | | |
| 1 | Bakery & Confectionery Products | Moisture | Appendix B of IS 1011 : 2002 (RA 2009) | 0.5% to 20% |
| | | Total ash | Annex B of IS 14433 : 2007 (RA 2012) | 0.05% to 10% |
| | | Acid Insoluble ash | Appendix C of IS 1011 : 2002 (RA 2009) | 0.01% to 5% |
| | | Fat | Appendix F of IS 4684:1975(RA 2015) | 0.1% to 50% |
| | | Protein | IS 7219:1973 (RA 2015) | 0.5% to 50% |
| | | pH | Clause 13 of IS 4706 (Part-II): 1978 (RA 2015) | 1 to 14 |

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|----------|-------------------------------------|-----------------------------|---|--|
| | | Acidity of extracted Fat | Appendix D of IS 1011:2002 (RA 2009) | 0.01% to 10% |
| | | Crude Fibre | IS 10226(Part-I):1982 (RA 2015)/ISO 5498:1981 | 0.2% to 10% |
| | | Total Carbohydrate | Annex C of IS 1656:2007 (RA 2012) | 2% to 98% |
| | | Energy | CFI/FSAQCL/NIN/STP/04/0 2.08.2007/Issue No.2 | 15 kcal/100g to 900 kcal/100g |
| | | Uric acid | IS 4333(Part-V):1970 (RA 2015) | 3 mg/kg to 100 mg/kg |
| 2 | Chikkies & its Varieties | Moisture | Clause 4 of IS 6287:1985 (RA 2010) | 0.5% to 20% |
| | | Total Ash | Annex B of IS 14433:2007 (RA 2012) | 0.05% to 10% |
| | | Acid Insoluble ash | Clause 7 of IS 6287:1985 (RA 2010) | 0.02% to 5% |
| | | Fat | Clause 10 of IS 6287:1985 (RA 2010) | 0.1% to 20% |
| | | Total Sugar | Clause 9 of IS 6287:1985 (RA 2010) | 1.5% to 50% |
| | | pH | Clause 13 of IS 4706 (Part-II): 1978 (RA 2015) | 1 to 14 |
| | | Protein | Clause 11 of IS 6287:1985 (RA 2010) | 0.5% to 50% |
| | | Acid value of extracted Fat | Clause 7 of IS 548 (Part-I):1964 (RA 2015) | 0.01 to 10 |
| | | Uric Acid | IS 4333(Part-V):1970 (RA 2015) | 3 mg/kg to 100 mg/kg |
| | | Total Carbohydrate | Annex C of IS 1656:2007 (RA 2012) | 2% to 98% |
| | | Energy | CFI/FSAQCL/NIN/STP/04/0 2.08.2007/Issue No.2 | 15 kcal/100g to 900 kcal/100g |

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|-----|------------------------------------|--------------------------------------|---|--|
| 3. | Cereals And Cereal Products | | | |
| a. | Cereals & Pulses | Rodent Hair and Excreta | FSSAI MANUAL,2016-Cereal & Cereal Products, pg-4 | Qualitative |
| | | Live and Dead Insects | FSSAI MANUAL,2016-Cereal & Cereal Products, pg-4 | Qualitative |
| | | Obnoxious smell | FSSAI Manual,2016 | Qualitative |
| | | Physical Observation | FSSAI Regulation,2011 | Qualitative |
| | | NonEdible Grains/seeds | FSSAI Regulation,2011-2.4.6 | 0.1% to 10% |
| | | Fungus and mould infestation | CFI/FSAQCL/STP/149/14.1 1.2017/Issue No:2 | 0.1% to 10% |
| | | Kernal bunt grains and Ergot grains | FSSAI Regulation,2011/FSSAI MANUAL,2016-Cereal & Cereal Products, pg-10 | Qualitative |
| | | Moisture | IS4333(Part2):2017 | 0.5% to 20% |
| | | Foreign Matter | IS 4333(Part-I):1996 (RA 2012) | 0.1% to 10% |
| | | Other Edible Grains | IS 4333(Part-I):1996 (RA 2012) | 0.1% to 10% |
| | | Refraction other than foreign matter | IS 4333(Part-I):1996 (RA 2012) | 0.1% to 10% |
| | | Shrivelled or Immature Grains | IS 4333(Part-I):1996 (RA 2012) | 0.1% to 10% |
| | | Broken Grains & Fragments | IS 4333(Part-I):1996 (RA 2012) | 0.1% to 10% |
| | | Insect Damaged or Weeviled Grains | IS4333(Part-I):1996 (RA 2012) | 0.1% to 10% |
| | | Admixture Grains | IS 4333(Part-I):1996 (RA 2012) | 0.1% to 10% |

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|-----------|--|---|---|--|
| | | Damaged Grains | IS 4333(Part-I):1996 (RA 2012) | 0.1% to 10% |
| | | Discoloured | IS 4333(Part-I):1996 (RA 2012) | 0.1% to 10% |
| | | Uric acid | IS 4333(Part-V):1970 (R.A2015) | 3 mg/kg to 100 mg/kg |
| b. | Processed Cereals and Pulses products (Raw toasted, Roasted flour/grits, Infant foods mixes of Cereal/ pulses/milletts, Nutritional cook mixes, Hot cooked food items and its ingredients for preparation of ICDS food supplements, Instant sambar mix with or without fortification, Multigrain porridge mix, Fortified rice, Fortified rice Kernels, Ready to eat Extruded Snack food, Breakfast cereals such as flakes, Micro nutrient foods for | Moisture | IS 16072:2012/IS 1011:2002 (RA 2009) | 0.5% to 20% |
| | | Total ash | Annex B of IS 14433:2007 (RA 2012) | 0.05% to 10% |
| | | Acid Insoluble ash | Annex C of IS 14433:2007 (RA 2012) | 0.03% to 5% |
| | | Fat | Appendix F of IS 4684:1975(RA 2015) | 0.5% to 20% |
| | | Crude Fibre | IS 10226(Part-I):1982 (RA 2015)/ISO 5498:1981 | 0.1% to 20% |
| | | Protein | IS 7219:1973 (RA 2015) | 0.5% to 20% |
| | | pH | Clause 13 of IS 4706(Part-II) : 1978 (RA 2015) | 1to 14 |
| | | Alcoholic Acidity as H ₂ SO ₄ | Appendix F of IS 1155:1968 (RA 2015) | 0.02% to 0.5% |
| | | Total Carbohydrate | Annex C of IS 1656:2007 (R.A2012) | 2% to 98% |
| | | Gluten | Appendix D of IS1155:1968 (RA 2015)/IS1009:1979(RA 2015) | 0.5 % to 20 % |
| | | Energy | CFI/FSAQCL/NIN/STP/04/0 2.08.2007/Issue No.2 | 15 kcal/100g to 900 kcal/100g |
| | | Vitamin C | IS 5838:1970(RA 2010) | 5 mg/100g to 100 mg/100g |
| | | Vitamin C | CFI/FSAQCL/INS/STP/143/ 02.06.2015/Issue No.1 | 5 mg/100g to 50mg/100g |

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|-----------|--|-------------------------|---|--|
| | different ICDS beneficiaries, Protein rich Paustik atta, Protein rich Paustik Maida, Fortified Maida | Vitamin A | CFI/FSAQCL/INS/STP/142/02.06.2015/Issue No.1 | 20 mcg/100g to 1000mcg/100g |
| | | Vitamin B1 | CFI/FSAQCL/INS/STP/144/02.06.2015/Issue No.1 | 0.1 mg/100g to 20mg/100g |
| | | Vitamin B2 | CFI/FSAQCL/INS/STP/144/02.06.2015/Issue No.1 | 0.1 mg/100g to 20mg/100g |
| | | Vitamin B3 | CFI/FSAQCL/INS/STP/144/02.06.2015/Issue No.1 | 1 mg/100g to 50mg/100g |
| | | Vitamin B9 | CFI/FSAQCL/INS/STP/145/22.11.2017/Issue No.1 | 5.0 mcg/100g to 1000 mcg/100g |
| | | Iron | IS 14433:2007(R.A2012) | 5.0 mg/100g to 1000 mg/100g |
| | | Calcium | IS 5949:1990 (RA 2010) | 1 mg/100g to 1500 mg/100g |
| | | Uric acid | IS 4333(Part-V):1970 (RA 2015) | 3 mg/kg to 100 mg/kg |
| | | Moisture | Annex A of IS 1011:2002 (RA 2009) | 0.5% to 20% |
| | | Peroxide Value | Clause 22 of IS 3508:1966 (RA 2013) | 0.1 meq/kg to 50 meq/kg |
| | | Free fatty acid | IS 548:1964 (Part-I) (RA 2015) | 0.01% to 20% |
| c. | Fortified Atta | Moisture | Appendix A of IS 1155:1968 (R.A2015) | 0.5% to 20% |
| | | Total ash | Appendix B of IS 1155:1968(RA 2015) | 0.05% to 10% |
| | | Acid Insoluble Ash | Appendix C of IS 1155:1968 (R.A2015) | 0.03% to 5% |
| | | Fibre | Appendix E of IS 1155:1968 (RA 2015) | 0.1% to 20% |
| | | pH | Clause 13 of IS 4706(Part-II): 1978 (RA 2015) | 1 to 14 |

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|-----|--|---|---|--|
| | | Protein | IS 7219:1973 (RA 2015) | 0.5% to 20% |
| | | Alcoholic Acidity as H ₂ SO ₄ | Appendix F of IS 1155:1968 (R.A2015) | 0.02% to 0.5% |
| | | Iron | IS 14433:2007 (RA 2012) | 5.0 mg/100g to 1000 mg/100g |
| | | Gluten | Appendix D of IS 1155:1968 (RA 2015) | 0.5 % to 20 % |
| | | Calcium | IS 5949:1990 (RA 2010) | 1 mg/100g to 1500 mg/100g |
| | | Uric acid | IS 4333(Part-V):1970 (RA 2015) | 3 mg/kg to 100 mg/kg |
| | | Peroxide Value | Clause 7 of IS 548(Part-I):1964 (R.A2015) | 0.1 meq/kg to 50 meq/kg |
| | | Free fatty acid | IS 548:1964 (Part-I) (RA 2015) | 0.01% to 20% |
| | | Vitamin C | IS 5838:1970(RA 2010) | 5 mg/100g to 100 mg/100g |
| | | Vitamin C | CFI/FSAQCL/INS/STP/143/02.06.2015/Issue No.1 | 5 mg/100g to 50mg/100g |
| | | Vitamin A | CFI/FSAQCL/INS/STP/142/02.06.2015/Issue No.1 | 20 mcg/100g to 1000 mcg/100g |
| | | Vitamin B1 | CFI/FSAQCL/INS/STP/144/02.06.2015/Issue No.1 | 0.1 mg/100g to 20 mg/100g |
| | | Vitamin B2 | CFI/FSAQCL/INS/STP/144/02.06.2015/Issue No.1 | 0.1 mg/100g to 20mg/100g |
| | | Vitamin B3 | CFI/FSAQCL/INS/STP/144/02.06.2015/Issue No.1 | 1 mg/100g to 50mg/100g |
| | | Vitamin B9 | CFI/FSAQCL/INS/STP/145/22.11.2017/Issue No.1 | 5.0 mcg/100g to 1000 mcg/100g |
| d. | Roasted Bengal Gram Dhal Flour, Wheat Flour (Atta),Maida | Moisture | Appendix A of IS 1009:1979 (RA 2015) | 0.5 % to 20% |
| | | Total ash | Appendix B of IS 1009:1979 (RA 2015) | 0.05% to 5% |

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|-----------|--------------------------------|---|---|--|
| | | Acid Insoluble Ash | Appendix C of IS 1009:1979 (RA 2015) | 0.02% to 5% |
| | | Alcoholic Acidity as H ₂ SO ₄ | Appendix E of IS 1009:1979 (RA 2015) | 0.02 % to 0.5% |
| | | pH | Clause 13 of IS4706 (Part-II) : 1978 (RA 2015) | 1 to 14 |
| | | Gluten | Appendix D of IS 1009:1979 (RA 2015) | 0.5 % to 20 % |
| | | Protein | IS 7219:1973 (RA 2015) | 0.5 % to 20% |
| | | Peroxide Value | Clause 7 of IS 548 (Part-I): 1964 (RA 2015) | 0.1 meq/kg to 50 meq/kg |
| | | Free fatty acid | IS 548:1964 (Part-I) (RA 2015) | 0.01% to 20% |
| | | Uric acid | IS 4333(Part-V):1970 (R.A2015) | 3 mg/kg to 100 mg/kg |
| e. | Suji or Rawa / Semolina | Moisture | Appendix B of IS 1010:1968 (RA 2015) | 0.5 % to 20% |
| | | Total ash | Appendix C of IS 1010:1968 (RA 2015) | 0.05% to 5% |
| | | Acid Insoluble Ash | Appendix D of IS 1010:1968 (RA 2015) | 0.02% to 5% |
| | | Alcoholic Acidity as H ₂ SO ₄ | Appendix F of IS 1010:1968 (RA 2015) | 0.02 % to 0.5% |
| | | pH | Clause 13 of IS 4706 (Part-II) : 1978 (RA 2015) | 1 to 14 |
| | | Uric acid | IS 4333(Part-V):1970 (R.A2015) | 3 mg/kg to 100 mg/kg |
| | | Gluten | Appendix E of IS 1010:1960 (RA 2015) | 0.5 % to 20 % |
| f. | Corn Flakes | Moisture | Appendix A of IS 1158:1973 (RA 2010) | 0.5 % to 20 % |
| | | Total ash Excluding NaCl | Appendix B of IS 1158:1973(RA 2010) | 0.5 % to 10 % |

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|-----------|------------------------------------|---|---|--|
| | | pH | Clause 13 of IS 4706 (Part-II) : 1978 (RA 2015) | 1 to 14 |
| | | Acid Insoluble Ash | Appendix C of IS 1158:1973 (RA 2010) | 0.02% to 5 % |
| | | Fibre | Appendix D of IS 1158:1973 (RA 2010) | 0.1% to 20 % |
| | | Uric acid | IS 4333 (Part-V) : 1970 (RA 2015) | 3 mg/kg to 100 mg/kg |
| | | Alcoholic Acidity as H ₂ SO ₄ | Appendix E of IS 1158:1973 (RA 2010) | 0.02 % to 0.5% |
| g. | Malt & Malt based foods | Moisture | IS 16072 : 2012 | 0.5% to 20% |
| | | Total ash | Annex B of IS 14433 : 2007 (RA 2012) | 0.05% to 10% |
| | | pH | Clause 13 of IS 4706 (Part-II) : 1978 (RA 2015) | 1 to 14 |
| | | Acid Insoluble ash | Annex C of IS 14433 : 2007 (RA 2012) | 0.02% to 5% |
| | | Fat | Appendix F of IS 4684 : 1975(RA 2015) | 0.5% to 20% |
| | | Crude Fibre | IS 10226(Part-I): 1982 (RA 2015)/ISO 5498:1981 | 0.1% to 20% |
| | | Protein | IS 7219 : 1973 (RA 2015) | 0.5% to 20% |
| | | Alcoholic Acidity as H ₂ SO ₄ | Appendix F of IS 1155 : 1968 (RA 2015) | 0.02% to 0.5% |
| | | Total Carbohydrate | Annex C of IS 1656:2007 (RA 2012) | 2% to 98% |
| | | Energy | CFI/FSAQCL/NIN/STP/04/0 2.08.2007/Issue No.2 | 15 kcal/100g to 900 kcal/100g |
| | | Uric acid | IS 4333(Part-V) : 1970 (RA 2015) | 3 mg/kg to 100 mg/kg |
| h. | Malt Extract | Refractive Index | Annex B of IS 2404:1993 (RA 2015) | 1.3 to 1.5 |

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|-----------|--|---|---|--|
| | | Total Solids | Annex C of IS 2404:1993 (RA 2015) | 50 % to 80 % |
| | | Protein | Annex E of IS 2404:1993 (RA 2015) | 0.5 % to 20 % |
| | | pH | Clause 13 of IS 4706 (Part-II) : 1978 (RA 2015) | 1 to 14 |
| | | Reducing Sugar | Annex D of IS 2404:1993 (RA 2015) | 20 % to 80 % |
| i. | Rolled Oats / Quick cooking Oats and its products | Moisture | Appendix A of IS 1155 : 1968 (RA 2015) | 0.5% to 20 % |
| | | Total ash | Appendix B of IS 1155 : 1968 (RA 2015) | 0.05% to 10 % |
| | | Acid Insoluble ash | Appendix C of IS 1155 : 1968 (RA 2015) | 0.02% to 5 % |
| | | Crude Fibre | Appendix A of IS 1155 : 1968 (RA 2015) | 0.1% to 20 % |
| | | Protein | IS 7219 : 1973 (RA 2015) | 0.5% to 20 % |
| | | pH | Clause 13 of IS 4706 (Part-II) : 1978 (RA 2015) | 1 to 14 |
| | | Alcoholic Acidity as H ₂ SO ₄ | Appendix F of IS 1155 : 1968 (RA 2015) | 0.02% to 0.5 % |
| | | Uric acid | IS 4333(Part-V) : 1970 (RA 2015) | 3 mg/kg to 100 mg/kg |
| | | Total Carbohydrate | Annex C of IS 1656:2007 (RA 2012) | 2% to 98 % |
| | | Energy | CFI/FSAQCL/NIN/STP/04/0 2.08.2007/Issue No.2 | 15 kcal/100g to 900 kcal/100g |
| j. | Solvent Extracted flour/Expeller Pressed | Moisture | Appendix B of IS 4684:1975(RA 2015) | 0.5% to 20% |
| | | Total ash | Appendix D of IS 4684:1975(RA 2015) | 0.05% to 10% |
| | | Acid Insoluble ash | Appendix E of IS 4684:1975(RA 2015) | 0.03% to 5% |

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|-----------|---|--------------------------------------|---|--|
| | | pH | Clause 13 of IS 4706 (Part-II) : 1978 (RA 2015) | 1 to 14 |
| | | Fat | Appendix F of IS 4684:1975(RA 2015) | 0.5% to 20% |
| | | Crude Fibre | Appendix H of IS 4684:1975(RA 2015) | 0.1% to 20% |
| | | Protein | Appendix C of IS 4684:1975(RA 2015) | 0.5% to 20% |
| | | Acid value of extracted Fat | Appendix G of IS 4684:1975 (RA 2015) | 0.01 to 20 |
| | | Energy | CFI/FSAQCL/NIN/STP/04/0 2.08.2007/Issue No.2 | 15 kcal/100g to 900 kcal/100g |
| | | Uric acid | IS 4333(Part-V) 1970 (RA 2015) | 3 mg/kg to 100 mg/kg |
| | | Urease Activity | IS 7837:1975 (RA 2010) | 0.01 to 5 |
| k. | Beans and its products (All whole, split beans, their edible flours/ grits and their other products) | Moisture | IS4333(Part2):2017 | 0.5% to 20% |
| | | Foreign Matter | IS 4333(Part-I):1996 (RA 2012) | 0.1% to 10% |
| | | Other Edible Grains | IS 4333(Part-I):1996 (RA 2012) | 0.1% to 10% |
| | | Refraction other than foreign matter | IS 4333(Part-I):1996 (RA 2012) | 0.1% to 10% |
| | | Shrivelled or Immature Grains | IS 4333(Part-I):1996 (RA 2012) | 0.1% to 10% |
| | | Insect Damaged or Weeviled Grains | IS 4333(Part-I):1996 (RA 2012) | 0.1% to 10% |
| | | Admixture Grains | IS 4333(Part-I):1996 (RA 2012) | 0.1% to 10% |
| | | Damaged Grains | IS 4333(Part-I):1996 (RA 2012) | 0.1% to 10% |
| | | Broken Grains & Fragments | IS 4333(Part-I):1996 (RA 2012) | 0.1% to 10% |

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|-----------|--|--|---|--|
| | | Damaged Kernel including slightly Damaged Kernel | IS 4333(Part-I):1996 (RA 2012) | 0.1% to 10% |
| | | Discoloured | IS 4333(Part-I):1996 (RA 2012) | 0.1% to 10% |
| | | Uric acid | IS 4333(Part-V):1970 (R.A2015) | 3 mg/kg to 100mg/kg |
| | | Moisture | IS 16072:2012 | 0.5% to 20% |
| | | Total ash | Annex B of IS 14433:2007 (RA 2012) | 0.05% to 10% |
| | | Acid Insoluble ash | Annex C of IS 14433:2007 (RA 2012) | 0.05% to 5% |
| | | Fat | Appendix F of IS 4684:1975 (R.A2015) | 0.5% to 50% |
| | | pH | Clause 13 of IS 4706 (Part-II) : 1978 (RA 2015) | 1 to 14 |
| | | Acid value of extracted Fat | Appendix G of IS 4684:1975(R.A2015) | 0.01 to 20 |
| | | Crude Fibre | Appendix H of IS 4684:1975(RA 2015) | 0.2% to 10% |
| | | Protein | IS 7219:1973 (RA 2015) | 0.5% to 60% |
| 3. | Coconut And Coconut Products | | | |
| a | Coconut and its products such as Desiccated Coconut | Moisture | Annex B of IS 966:1999 (R.A2015) | 0.5% to 5 % |
| | | Total ash | Annexure C of IS 966:1999 (RA 2015) | 0.5 % to 10 % |
| | | Acid Insoluble ash | Annexure D of IS 966:1999 (RA 2015) | 0.03% to 5% |
| | | Fat | Annexure E of IS 966:1999 (RA 2015) | 5% to 80% |

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|-----------|--------------------------------------|-----------------------------|---|--|
| | | Sulphur dioxide | Clause 13 of IS 15279:2003 RA 2013/ IS 4706 (Part-II): 1978 (RA 2015) | 1 mg/100g to 100 mg/100g |
| | | Acid value of extracted Fat | Appendix G of IS 4684:1975(RA 2015) | 0.01 to 20 |
| | | Extraneous matter | FSSAI Regulation 2011, 2.3.45 | 0.1% to 10% |
| | | Protein | IS 7219:1973 (R.A2015) | 0.5% to 60% |
| | | Free Fatty Acid | Annexure F of IS 966:1999 (RA 2015) | 0.01% to 20% |
| 4. | Cocoa Products | | | |
| a. | Cocoa Powder and its products | Moisture | Appendix B of IS 1164:1986 (RA 2017) | 1% to 10 % |
| | | Total ash | Appendix D of IS 1164:1986 (RA 2017) | 1 % to 10 % |
| | | Acid Insoluble Ash | Appendix E of IS 1164:1986 (RA 2017) | 0.02 % to 5% |
| | | Crude Fibre | Appendix G of IS 1164:1986 (RA 2017) | 0.5 % to 10 % |
| | | pH | Clause 13 of IS 4706 (Part-II) : 1978 (RA 2015) | 1 to 14 |
| | | Cocoa Butter | Appendix C of IS 1164:1986 (RA 2017) | 10 % to 20 % |
| | | Alkalinity of Total Ash | Appendix F of IS 1164:1986 (RA 2017) | 1 % to 10 % |
| 5. | Edible Colours & Flavours | | | |
| a. | Synthetic Food Color | Sunset yellow | FSSAI Manual, 2016-Food Additives, Pg-85 | 20 mg/kg to 200 mg/kg |
| | | Tartazine | FSSAI Manual, 2016-Food Additives, Pg-85 | 20 mg/kg to 200 mg/kg |

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|-----|---|--------------------------------------|---|--|
| | | Brilliant Blue FCF | FSSAI Manual,2016-Food Additives, Pg-85 | 20 mg/kg to 200 mg/kg |
| | | Indigo carmine | FSSAI Manual,2016-Food Additives, Pg-85 | 20 mg/kg to 100 mg/kg |
| | | Fast Green FCF | FSSAI Manual,2016-Food Additives, Pg-85 | 20 mg/kg % to 100 mg/kg |
| | | Erythrosine | FSSAI Manual,2016-Food Additives, Pg-85 | 20 mg/kg to 100 mg/kg |
| | | Ponceau AR | FSSAI Manual,2016-Food Additives, Pg-85 | 20 mg/kg to 200 mg/kg |
| 9. | Vegetable Products, Raisins, dates and their products | Fungus and Mould infestation | CFI/FSAQCL/STP/149/14.1 1.2017/Issue No: 2 | 0.1% to 10% |
| 10. | Herbs, Spices & Condiments | | | |
| a. | spices and condiments (whole, Individual spices powder and Various masala mixes) | Rodent Hair and Excreta | Clause 4 of IS 1797:2017 | Qualitative |
| | | Live and Dead Insects | Clause 4 of IS 1797:2017 | Qualitative |
| | | Obnoxious smell | FSSAI Regulation,2011,2.9 | Qualitative |
| | | NonEdible Substances | FSSAI MANUAL,2016, 2.9/Clause 4 of IS 1797:2017 | 0.1% to 10% |
| | | Fungus and mould infestation | CFI/FSAQCL/STP/149/14.1 1.2017/Issue No:2 | 0.1% to 10% |
| | | Refraction other than foreign matter | IS 4333(Part-I):1996 (RA 2012) | 0.1% to 10% |
| | | Broken Grains & Fragments | IS 4333(Part-I):1996 (RA 2012) | 0.1% to 10% |
| | | Moisture | Clause 9 of IS 1797:2017 | 0.1% to 25% |
| | | Extraneous matter | Clause 4 of IS 1797:2017 | 0.1% to 10% |
| | | Split fruits | Clause 4 of IS 1797:2017 | 0.1% to 25% |

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|-----------|----------------------------|--|---|--|
| | | Damaged, Discoloured and Weeviled fruits | Clause 4 of IS 1797:2017 | 0.1% to 10% |
| | | Shrivelled and Immature fruits | Clause 4 of IS 1797:2017 | 0.1% to 10% |
| | | Fruits of other varieties of coriander | Clause 4 of IS 1797:2017 | 0.1% to 10% |
| | | Total Ash | Clause 6 of IS 1797:2017 | 0.10% to 10% |
| | | Acid Insoluble ash | Clause 8 of IS 1797:2017 | 0.01% to 5% |
| | | Cold water soluble extract | Clause 11 of IS 1797:2017 | 0.1% to 50% |
| | | Alcohol soluble extract | Clause 10 of IS 1797:2017 | 0.1% to 50% |
| | | Crude Fibre | Clause 13 of IS 1797:2017 | 0.1% to 20% |
| | | pH | Clause 13 of IS 4706(Part-II): 1978 (RA 2015) | 1 to 14 |
| | | Water insoluble Ash | Clause 7 of IS 1797:2017 | 0.01% to 5% |
| | | Non Volatile Ether Extract | Clause 14 of IS 1797:2017 | 0.5% to 20% |
| | | Free fatty acid | IS 548(Part-I):1964(RA 2015) | 0.01% to 20% |
| | | Sodium Chloride | Clause 16 of IS 1797 : 2017 | 0.1% to 10% |
| | | Peroxide Value | Clause 7 of IS 548(Part-I):1964 (RA 2015) | 0.1 meq/kg to 50 meq/kg |
| | | Alcoholic Acidity | Appendix F of IS 1155:1968 (RA 2015) | 0.02% to 0.5% |
| | | Uric acid | IS 4333(Part-V):1970 (RA 2015) | 3 mg/kg to 100 mg/kg |
| b. | Pepper | Moisture | Clause 9 of IS 1797:2017 | 0.5% to 20 % |
| | | Extraneous Matter/Foreign matter | Clause 4 of IS 1797:2017/ FSSAI Regulation,2011 | 0.1% to 10% |
| | | Insect Damaged | IS 1798:2010(RA 2015) | 0.1 % to 5% |
| | | Pin Heads or Broken berries | IS 1798:2010(RA 2015) | 0.1 % to 5% |

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| | | Light Berries | Annexure A of IS 1798:2010(RA 2015) | 0.1 % to 5% |
| | | Total Ash | Clause 6 of IS 1797:2017 | 0.10 % to 10% |
| | | Acid Insoluble ash | Clause 8 of IS 1797:2017 | 0.01% to 5 % |
| | | Non Volatile Ether Extract | Clause 14 of IS 1797:2017 | 0.5% to 20% |
| | | Crude Fibre | Clause 13 of IS 1797:2017 | 0.1% to 20% |
| c. | Cloves (Whole) | Moisture | Clause 9 of IS 1797:2017 | 0.5% to 20 % |
| | | Extraneous matter/Foreign matter | IS 4404:2010 | 0.1% to 10% |
| | | Headless Cloves | IS 4404:2010 | 0.1 % to 5 % |
| | | Khokar Cloves | IS 4404:2010 | 0.1 % to 5 % |
| | | Mother Cloves | IS 4404:2010 | 0.1 % to 5 % |
| d. | Turmeric | Moisture | Clause 9 of IS 1797:2017 | 0.5% to 20 % |
| | | Defective Rhizomes | IS 3576:2010 | 0.1 % to 5% |
| | | Curcumin | IS 10925:1984 (RA 2012) | 0.1 % to 5 % |
| | | Colour Value | IS 10925:1984 (RA 2012) | 0.1 % to 5 % |
| | | Starch | IS 4706:1978 (RA 2015) | 1 % to 20 % |
| | | Total Ash | Clause 6 of IS 1797:2017 | 0.10 % to 10% |
| | | Acid Insoluble ash | Clause 8 of IS 1797:2017 | 0.02% to 5 % |
| e. | Cardamom | Moisture | Clause 9 of IS 1797:2017 | 0.5% to 20 % |
| | | Extraneous Matter | IS 1907:1984(RA 2009)/ FSSAI Regulation,2011 | 0.1% to 10% |
| | | Immature | IS 1907:1984(RA 2009) | 0.1 % to 10 % |
| | | Total Ash | IS 1907:1984(RA 2009) | 0.1 % to 10% |
| | | Empty and Malformed capsules by count | IS 1907:1984(RA 2009) | 0.1 % to 5% |
| | | Light Seeds | IS 1907:1984(RA 2009) | 0.1 % to 5% |
| f. | Cumin | Moisture | Clause 9 of IS 1797:2017 | 0.5% to 20 % |
| | | Extraneous Matter | IS 2447:2010 | 0.1% to 10% |
| | | Other Edible Seeds | IS 2447:2010 | 0.1% to 10% |

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|-----------|--|--|--|--|
| | | Insect Damaged matter | IS 2447:2010 | 0.1% to 10% |
| | | Proportion of edible seeds other than cumin seeds | IS 2447:2010 | 0.1% to 10% |
| | | Total Ash | Clause 6 of IS 1797:2017 | 0.1% to 10% |
| | | Acid Insoluble ash | Clause 8 of IS 1797:2017 | 0.01 % to 5% |
| | | Non Volatile Ether Extract | Clause 14 of IS 1797:2017 | 0.5 % to 20% |
| g. | Iodized Salt, Double Fortified Salt | Moisture | Annexure A of IS 7224:2006 (RA 2010) | 0.05% to 10% |
| | | Sodium chloride | Annexure 5 of IS 253:2014/Annexure D of IS 7224 : 2006 (RA 2010) | 80% to 100% |
| | | Matter soluble in water other than sodium chloride | Annexure 7 of IS 253:2014/Annexure E of IS 7224:2006 (RA 2010) | 0.05% to 5% |
| | | Matter insoluble in dilute hydrochloric acid | Annexure 6 of IS 253:2014 | 0.02% to 2% |
| | | Chloride | Annexure 5 of IS 253:2014/Annexure D of IS 7224:2005 (RA 2010) | 50% to 60% |
| | | Matter insoluble in Water | Annexure 4 of IS 253:2014/Annexure C of IS 7224:2006 (RA 2010) | 0.05% to 5% |
| | | Iodine content | Annexure H of IS 7224:2006(RA 2010)/Annexure B of IS 16232:2014 | 10.30 µg/kg |
| | | Magnesium | Annexure F of IS 7224:2006(RA 2010)/Annexure 8 of IS 253:2014 | 0.01% to 3.0% |

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|-----------|--|--|--|--|
| | | Calcium | Annexure 8 of IS 253:2014/ IS 7224:2006(RA 2010) | 1 mg/100g to 100 |
| | | Sulphates | Annexure G of IS 7224:2006(RA 2010)/ Annexure 9 of IS 253:2014 | 0.05% to 3.0% |
| | | pH | Annexure C of IS 16232:2014 | 1.0% to 14.0 |
| | | Phosporous | Annexure D of IS 16232:2014 | 0.05% to 1.0% |
| | | Iron | Annexure A of IS 16232:2014/IS7224:2005(R .A2015) | 0.05% to 3.0% |
| | | Sodium hexa meta phosphate | Annexure E of IS 16232:2014 | 50% to 70% |
| h. | Edible Common Salt & Common salt – Iron Fortified | Moisture | Annexure 2 of IS 253:2014 | 0.05% to 10% |
| | | Water insoluble matter | Annexure 4 of IS 253:2014 | 0.05% to 5% |
| | | Sodium chloride | Annexure 5 of IS 253:2014 | 80% to 100% |
| | | Matter insoluble in dilute hydrochloric acid | Annexure 6 of IS 253:2014 | 0.02% to 2% |
| | | Matter soluble in water other than sodium chloride | Annexure 7 of IS 253:2014 | 0.05% to 5% |
| | | Magnesium | Annexure 8 of IS 253:2014 | 0.01% to 3.0% |
| | | Calcium | Annexure 8 of IS 253:2014/IS 7224:2006(RA 2010) | 1 mg/100g to 100 mg/100g |
| | | Chloride | Annexure 5 of IS 253:2014/IS 7224:2005 (RA 2015) | 50% to 60% |
| | | Sulphates | Annexure 9 of IS 253:2014 | 0.05% to 3.0% |
| | | Iron | Annexure A-2 of IS 12981:1991 (RA 2010)/IS | 0.05% to 3.0% |

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|------------|---|---|---|--|
| | | | 16232:2014 | |
| | | pH | Annexure A-3 of IS 12981: 1991 (RA 2010)/IS 253:2014 | 1.0 to 14.0 |
| | | Phosphates | Annexure A-4 of IS 12981: 1991 (RA 2010) | 0.05% to 1.0% |
| 11. | Infant Foods | | | |
| a. | Food for infant nutrition: Amylase Rich Energy Food -I & II, Energy dense Food for Supplementary Nutrition, Complementary Weaning Food with or without Amylase Activity, Micro/Macro nutrients fortified food supplements such as Balamrutham, Panjari food, Dalia, Upma Mixes, Laddu premixes, Ready to Use/Eat therapeutic foods (RUTF) and other ICDS food supplements, | Moisture | IS 16072:2012 | 0.5% to 20% |
| | | Total ash | Annex B of IS 14433:2007 (RA 2012) | 0.05% to 10% |
| | | Acid Insoluble ash | Annex C of IS 14433:2007 (RA 2012) | 0.02% to 5% |
| | | Fat | Appendix F of IS 4684 : 1975(RA 2015) | 0.5% to 20% |
| | | Crude Fibre | IS 10226(Part-I): 1982 (RA 2015)/ISO 5498:1981 | 0.1% to 20% |
| | | Protein | IS 7219 :1973 (RA 2015) | 0.5% to 20% |
| | | Alcoholic Acidity as H ₂ SO ₄ | Appendix F of IS 1155:1968 (RA 2015) | 0.02% to 0.5% |
| | | Total Carbohydrate | Annex C of IS 1656:2007 (RA 2012) | 2% to 98% |
| | | Energy | CFI/FSAQCL/NIN/STP/04/0 2.08.2007/Issue No.2 | 15 kcal/100g to 900 kcal/100g |
| | | Iron | Annex D-2 of IS 14433:2007 (RA 2012) | 5.0 mg/100g to 1000 mg/100g |
| | | pH | Clause 13 of IS 4706 (Part-II) : 1978 (RA 2015) | 1% to 14 |
| | | Calcium | IS 5949:1990 (RA 2010) | 1 mg/100g to 1500 mg/100g |
| | | Vitamin C | IS 5838:1970(RA 2010) | 5 mg/100g to 100mg/100g |
| | | Vitamin C | CFI/FSAQCL/INS/STP/143/ 02.06.2015/Issue No.1 | 5 mg/100g to 50mg/100g |

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|-----------|--|-------------------------|---|--|
| | Complementary foods for older Infants and young Children, Blend of Critically processed materials for the manufacture of various Micro/Macro nutrient fortified foods, Processed Cereal Based Complementary food, Infant Milk Substitute, Milk Cereal Based Complementary food, Follow Up formula and other food Nutritional food Supplements | Vitamin A | CFI/FSAQCL/INS/STP/142/02.06.2015/Issue No.1 | 20 mcg/100g to 1000 mcg/100g |
| | | Vitamin B1 | CFI/FSAQCL/INS/STP/144/02.06.2015/Issue No.1 | 0.1 mg/100g to 20mg/100g |
| | | Vitamin B2 | CFI/FSAQCL/INS/STP/144/02.06.2015/Issue No.1 | 0.1 mg/100g to 20 mg/100g |
| | | Vitamin B3 | CFI/FSAQCL/INS/STP/144/02.06.2015/Issue No.1 | 1 mg/100g to 50mg/100g |
| | | Vitamin B9 | CFI/FSAQCL/INS/STP/145/22.11.2017/Issue No.1 | 5.0 mcg/100g to 1000 mcg/100g |
| | | Uric acid | IS 4333(Part-V):1970 (RA 2015) | 3 mg/kg to 100mg/kg |
| b. | Protein Rich food Supplements for Infant and Preschool Children | Moisture | Appendix B of IS 4684:1975(RA 2015) | 0.1% to 20% |
| | | Total ash | Appendix D of IS 4684:1975(RA 2015) | 0.05% to 10% |
| | | Acid Insoluble ash | Appendix E of IS 4684:1975(RA 2015) | 0.02% to 5% |
| | | Fat | Appendix F of IS 4684:1975(RA 2015) | 0.5% to 20% |
| | | Crude Fibre | Appendix H of IS 4684:1975(RA 2015) | 0.1% to 20% |
| | | Protein | Appendix C of IS 4684:1975 (RA 2015) | 0.5% to 20% |

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|------------|--------------------------------|-------------------------|---|--|
| | | Iron | IS 14433:2007 (RA 2012) | 5.0 mg/100g to 1000 mg/100g |
| | | Calcium | IS 5949:1990 (RA 2010) | 1 mg/100g to 1500 mg/100g |
| | | pH | Clause 13 of IS 4706 (Part-II) : 1978 (RA 2015) | 1 to 14 |
| | | Vitamin C | IS 5838:1970 (RA 2010) | 5 mg/100g to 100mg/100g |
| | | Carbohydrate | Annex C of IS 1656:2007 (RA 2012) | 2% to 98% |
| | | Energy | CFI/FSAQCL/NIN/STP/04/0 2.08.2007/Issue No.2 | 15 kcal/100g to 950 kcal/100g |
| | | Vitamin C | CFI/FSAQCL/INS/STP/143/ 02.06.2015/Issue No.1 | 5 mg/100g to 100 mg/100g |
| | | Vitamin A | CFI/FSAQCL/INS/STP/142/ 02.06.2015/Issue No.1 | 20 mcg/100g to 1000 mcg/100g |
| | | Vitamin B1 | CFI/FSAQCL/INS/STP/144/ 02.06.2015/Issue No.1 | 0.1 mg/100g to 20mg/100g |
| | | Vitamin B2 | CFI/FSAQCL/INS/STP/144/ 02.06.2015/Issue No.1 | 0.1 mg/100g to 20mg/100g |
| | | Vitamin B3 | CFI/FSAQCL/INS/STP/144/ 02.06.2015/Issue No.1 | 1 mg/100g to 50mg/100g |
| | | Vitamin B9 | CFI/FSAQCL/INS/STP/145/ 22.11.2017/Issue No.1 | 5.0 mcg/100g to 1000mcg/100g |
| | | Uric acid | IS 4333(Part-V):1970 (RA 2015) | 3 mg/kg to 100 mg/kg |
| 12. | Milk And Dairy Products | Moisture | IS 16072:2012 | 0.5 % to 20 % |
| | | Total Ash | IS 14433:2007 (RA 2012) | 0.05 % to 10 % |
| | | Total Solids | IS 12333:2017/IS 13334(Part-I):2014 | 0.5 % to 20% |
| | | Protein | IS 7219:1973(RA 2015) | 0.5 % to 50 % |
| | | Milk Fat | IS 11721:2013/ISO 1736:2008 | 0.5 % to 20 % |
| | | Titration Acidity | IS 11766:2017/ISO 6092:1980(R.A2012) | 0.5 % to 5 % |

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|-----|---|--|---|--|
| 13. | Nuts & Nut Products And Oil Seeds & By Products | | | |
| A. | Nuts, dates and their products, Edible groundnut cake flour, Sesame flour and others | Moisture | IS4333(Part2):2017 | 0.5% to 20% |
| | | Foreign Matter | IS 4333(Part-I):1996 (RA 2012) | 0.1% to 10% |
| | | Other Edible Grains | IS 4333(Part-I):1996 (RA 2012) | 0.1% to 10% |
| | | Refraction other than foreign matter | IS 4333(Part-I):1996 (RA 2012) | 0.1% to 10% |
| | | Shrivelled or Immature Grains | IS 4333(Part-I):1996 (RA 2012) | 0.1% to 10% |
| | | Insect Damaged or Weeviled Grains | IS 4333(Part-I):1996(RA 2001) | 0.1% to 10% |
| | | Admixture Grains | IS 4333(Part-I):1996 (RA 2012) | 0.1% to 10% |
| | | Damaged Grains | IS 4333(Part-I):1996 (RA 2012) | 0.1% to 10% |
| | | Broken Grains & Fragments | IS 4333(Part-I):1996 (RA 2012) | 0.1% to 10% |
| | | Damaged Kernel including slightly Damaged Kernel | IS 4333(Part-I):1996 (RA 2012) | 0.1% to 10% |
| | | Discoloured | IS 4333(Part-I):1996 (RA 2012) | 0.1% to 10% |
| | | Uric acid | IS 4333(Part-V) : 1970 (R.A2015) | 3 mg/kg to 100mg/kg |
| | | Moisture | IS 16072 : 2012/IS 4684:1975(RA 2015) | 0.5% to 20% |
| | | Total ash | Annex B of IS 14433:2007 (RA 2012)/4684:1975 (RA 2015) | 0.05% to 10% |

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|-----------|----------------------------|-------------------------------------|---|--|
| | | Acid Insoluble ash | Annex C of IS 14433:2007 (R.A2012)/IS 4684:1975(RA 2015) | 0.05% to 5% |
| | | pH | Clause 13 of IS 4706 (Part-II):1978 (RA 2015) | 1 to 14 |
| | | Fat | Appendix F of IS 4684:1975(RA 2015) | 0.5% to 50% |
| | | Acid value of extracted Fat | Appendix G of IS 4684:1975(RA 2015) | 0.01 to 20 |
| | | Crude Fibre | Appendix H of IS 4684:1975(RA 2015) | 0.2% to 10% |
| | | Protein | IS 7219 :1973 (R.A2015) | 0.5% to 60% |
| | | Rodent Hair and Excreta | FSSAI Regulation 2011,2.3.47 | Qualitative |
| | | Live and Dead Insects | FSSAI Regulation 2011,2.3.47 | Qualitative |
| | | Obnoxious smell | FSSAI Regulation 2011,2.3.47 | Qualitative |
| | | Physical Observation | FSSAI Regulation 2011,2.3.47 | Qualitative |
| | | NonEdible Substances | FSSAI Regulation 2011,2.3.47 | 0.1% to 10% |
| | | Fungus and mould infestation | CFI/FSAQCL/STP/149/14.1 1.2017/Issue No:2 | 0.1% to 10% |
| | | Kernal bunt grains and Ergot grains | FSSAI Regulation,2011/FSSAI MANUAL,2016-Cereal and Cereal products, Pg-10 | Qualitative |
| b. | Pistachio Nuts | Moisture | IS4333(Part2):2017 | 0.5% to 5% |
| | | Empty Shells | FSSAI Regulation 2011,2.3.47.3 | 0.1% to 5% |
| | | Mouldy Shells | FSSAI Regulation 2011,2.3.47.3 | 0.1 % to 5 % |

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|------------|---|-------------------------|---|--|
| | | Unopened Shells | FSSAI Regulation 2011,2.3.47.3 | 0.1% to 5% |
| 14. | Poultry & Poultry Products | | | |
| a. | Egg Whole | Haugh Unit | IS 9810:1981 (RA 2013) | 20 to 80 |
| | | Candling | IS 9810 1981 (RA 2013) | Qualitative |
| | | Shell Thickness | IS 9810:1981(RA 2013) | 0.25 to 0.35 |
| | | Albumin Index | IS 9810:1981(RA 2013) | 5 to 7 |
| | | Yolk Index | IS 9810:1981(RA 2013) | 15% to 25 |
| b. | Egg Curry | Sodium Chloride | Appendix A of IS 1743:1973 (RA 2013) | 0.5 % to 5 % |
| | | Fat of Gravy | IS 5960 (Part – 3):1970 (RA 2016) | 0.5 % to 20 % |
| 15. | Starch And Starch Products | | | |
| a. | Starchy Foods (Sago) and Starch products | Moisture | Clause 4 of IS 4706 (Part-II): 1978 (RA 2015) | 0.5% to 20% |
| | | Total ash | Clause 5 of IS 4706 (Part-II) : 1978 (RA 2015) | 0.05% to 10% |
| | | Acid Insoluble ash | Clause 8 of IS 4706 (Part-II) : 1978 (RA 2015) | 0.01% to 5% |
| | | Crude Fibre | Clause 12 of IS 4706 (Part-II) : 1978 (RA 2015) | 0.2% to 10% |
| | | Sulphur dioxide | Clause 11.2 of IS 4706(Part-II) :1978 (RA 2015) | 1mg/100g to 100mg/100g |
| | | pH | Clause 13 of IS 4706 (Part-II) : 1978 (RA 2015) | 1 to 14 |
| | | Gelatinization | Appendix of A of IS 899:1971 (RA 2012) | 2% to 20% |
| | | Starch | Clause 9 of IS 4706 (Part-II): 1978 (RA 2015) | 0.5% to 100% |

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|------------|---|---|---|--|
| | | Free acidity | Clause 14 of IS 4706 (Part-II): 1978 (RA 2015) | 0.5% to 10% |
| | | Sulphated Ash | Clause 7 of IS 4706 (Part-II): 1978 (RA 2015) | 0.01% to 5% |
| | | Alcoholic Acidity as H ₂ SO ₄ | Clause 15 of IS 4706 (Part-II): 1978 (RA 2015) | 0.02% to 0.5% |
| | | Hydrocyanic Acid | IS 4706 (Part-2):1978 | Qualitative |
| b. | Papads | Moisture | Annex B of IS 2639:1999 (RA 2015) | 0.05% to 20% |
| | | Total ash | Annex C of IS 2639:1999 (RA 2015) | 0.05% to 10% |
| | | Acid Insoluble ash | Annex D of IS 2639:1999 (RA 2015) | 0.01% to 5% |
| | | pH | Annex F of IS 2639:1999 (RA 2015) | 1 to 14 |
| | | Total Carbohydrate | Annex C of IS 1656:2007 (RA 2012) | 2% to 98% |
| | | Fat | Annex G of IS 2639:1999 RA 2015 | 0.1% to 25% |
| | | Alkalinity of ash as Sodium Carbonate | Annex E of IS 2639 : 1999 (RA 2015) | 0.5% to 20% |
| | | Crude Fibre | Annex H of IS 2639:1999 (RA 2015) | 0.2% to 10% |
| | | Uric acid | IS 4333(Part-V):1970 (RA 2015) | 3 mg/kg to 100 mg/kg |
| | | Energy | CFI/FSAQCL/NIN/STP/04/0 2.08.2007/Issue No.2 | 15 kcal/100g to 900 kcal/100g |
| 16. | Sugar And Sugar Products | | | |
| a. | Sweeting agents, Sugar, Jaggery, Dextrose & its products | Loss on Drying | Clause 4 of IS 15279:2003(RA 2013) | 0.05% to 10% |
| | | Acid Insoluble ash | Annexure A of IS 12923:1990(RA 2013) | 0.05% to 5% |

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|------------|--|--|---|--|
| | | Reducing Sugar | Clause 7 of IS 15279:2003(RA 2013) | 0.5% to 50% |
| | | Sulphur dioxide | Clause 13 of IS 15279:2003 (RA 2013)/ IS 4706 (Part-II): 1978 (RA 2015) | 1 mg/100g to 100 mg/100g |
| | | Water Insoluble matter (Extraneous matter) | Clause 14 of IS 15279:2003 (RA 2013) | 0.1% to 5% |
| | | Sulphated ash | Clause 10 of IS 15279:2003 (RA 2013) | 0.01% to 5% |
| | | Determination of sugar solution colour – ICUMSA colour | Clause 8 of IS 15279:2003 (RA 2013) | 15 IU to 300 IU |
| | | Sucrose | Clause 12 of IS 15279:2003 (RA 2013) | 1.5% to 100% |
| | | pH | Clause 13 of IS 4706 (Part-II) : 1978 (RA 2015) | 1 to 14 |
| | | Total Sugar | IS 15279:2003 (RA 2013) | 1.5% to 50% |
| | | Total Solids | IS 874:1992 (RA 2013) | 90% to 100% |
| | | Moisture | IS 874:1992 (RA 2013) | 0.05% to 10% |
| | | Acidity | IS 874:1992 (RA 2013) | 0.1% to 5% |
| | | Sodium Bicarbonate | FSSAI Instruction Manual Part-2, Pg-13 | Qualitative |
| | | Metanil Yellow | FSSAI Instruction Manual Part-2, Pg-13 | Qualitative |
| | | Chalk powder | FSSAI Instruction Manual Part-2, Pg-13 | Qualitative |
| | | Washing Soda | FSSAI Instruction Manual Part-2, Pg-13 | Qualitative |
| 17. | others (adulteration test) | | | |
| a. | Food for Infant Nutrition, Nuts and their | Boric Acid | FSSAI Instruction Manual Part-2, Pg-16 | Qualitative |

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|-------------|--|---|---|--|
| | products, Friuts and Vegetable products, Cereal and pulses, Sweeting agents, All spices and condiments and their products | Sand or Talcum | FSSAI Instruction Manual Part-2, Pg-13 | Qualitative |
| | | Kesari Dhal | FSSAI Instruction Manual Part-2, Pg-17 | Qualitative |
| | | Castor Husk and MAHUA oil cake | IS 1712:1982(RA 2009)/IS 7874:1975(RA 2014) | Qualitative |
| | | Excessive Bran and Sand,Chalk powder,Brick powder,Metanil Yellow and Dirt | FSSAI Instruction Manual Part-2, Pg-17 | Qualitative |
| III. | RESIDUES IN FOOD PRODUCTS | | | |
| 1. | MYCOTOXINS | | | |
| a | Food for Infant Nutrition, Nuts and their products, Malt and Malt based foods, Fruits and Vegetable products, Cereal and cereal products, Sweeting agents, Chikkies and its varieties, All spices and condiments and their products | Aflatoxin (B1,B2,G1&G2) | Appendix J of IS 4684 :1975 (RA 2015) (Qualitative J-4.4) | Qualitative 5 mcg/kg |
| | | Deoxyvalenol(DON) | FSSAI MANUAL,2016 Mycotoxin, Pg-44 | Qualitative |
| | | Free and Total Gossypol | IS 4876:1986 (RA 2016) | Qualitative |
| | | Aflatoxin B1 | CFI/FSAQCL/INS/STP/146/ 28.10.2017/Issue No.1 | 5 ug/kg to 100 ug/kg |
| | | Aflatoxin B2 | CFI/FSAQCL/INS/STP/146/ 28.10.2017/Issue No.1 | 5 ug/kg to 100ug/kg |
| | | Aflatoxin G1 | CFI/FSAQCL/INS/STP/146/ 28.10.2017/Issue No.1 | 5 ug/kg to 100ug/kg |
| | | Aflatoxin G2 | CFI/FSAQCL/INS/STP/146/ 28.10.2017/Issue No.1 | 5 ug/kg to 100ug/kg |

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|-----|---|-----------------------------------|---|--|
| IV. | WATER | | | |
| 1. | Potable Water / Drinking Water /Industrial Water/Ground Water/Irrigation water | Odour | IS 3025(Part-5):1983 (RA 2017) | Qualitative |
| | | Taste | IS 3025(Part-8):1984 (RA 2017) | Qualitative |
| | | Colour | IS 3025(Part-4):1983 (RA 2017) | Qualitative |
| | | Acidity | IS 3025(Part-22):1986 (RA 2014) | 0.5 mg/l to 500 mg/l |
| | | Alkalinity | IS 3025(Part-23):1986 (RA 2014) | 0.5 mg/l to 500mg/l |
| | | pH | IS 3025(Part-2):1983 (RA 2017) | 2 to 14 |
| | | Total solids | IS 3025(Part-15):1984 (RA 2014) | 25 mg/l to 500mg/l |
| | | Total Dissolved solids | IS 3025(Part-16):1984 (RA 2017) | 25 mg/l to 500mg/l |
| | | Total suspended solids | IS 3025(Part-17):1984 (RA 2017) | 1 mg/l to 50mg/l |
| | | Chloride | IS 3025(Part-32):1988 (RA 2014) | 1 mg/l to 500mg/l |
| | | Magnesium | IS 3025(Part-46):1994 (RA 2014) | 0.1 mg/l to 100mg/l |
| | Calcium | IS 3025(Part-40):1981 (RA 2014) | 0.1 mg/l to 100mg/l | |
| | BOD | IS 3025 (Part -44):1993 (RA 2014) | 1 mg/l to 100 mg/ l | |
| | COD | IS 3025(Part-58):2006 (RA 2017) | 1 mg/l to 100 mg/ l | |

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|-----|---|-------------------------|---|--|
| V. | INDUSTRIAL AND FINE CHEMICALS | | | |
| 1. | Disinfectants Sodium Hypochlorite | Available Chlorine | IS 11673:1992 (RA 2010) | 1% to 25% by Volume |
| | | Total Chlorine | IS 11673:1992 (RA 2010) | 1% to 25% by Volume |