

Laboratory In Vitro Research Solutions Pvt. Ltd., # 22,23, Kodigehalli Main road,
Sahakarnagar PO, Hebbal, Bengaluru, Karnataka

Accreditation Standard ISO/IEC 17025: 2017

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CHEMICAL TESTING

| I. | ANIMAL FOOD & FEEDS | | | |
|----|---------------------|--------------------|--|--------------------------|
| 1. | Pet Foods | Acid insoluble ash | IS 7874 (part-1), RA 2014: 1975 | 0.01 g/100g to 10 g/100g |
| | | calcium | IS 7874 (part 2), RA 2014: 1975 | 0.05 g/100g to 5 g/100g |
| | | Crude fat | IS 7874 (part 1), RA 2014: 1975 | 1 g/100g to 20 g/100g |
| | | Crude fibre | IS 7874 (part 1), RA 2014: 1975 | 2 g/100g to 20 g/100g |
| | | Crude Protein | IS 7874 (part 1), RA 2014: 1975 | 1 g/100g to 70 g/100g |
| | | Moisture | IS 7874 (part 1), RA 2014: 1975 | 2 g/100g to 12 g/100g |
| | | Phosphorus | IS 7874 (part 2), RA 2014: 1975 | 0.05 g/100g to 5 g/100g |
| | | Salt | IS 7874 (Part 2), RA 2014: 1975 | 0.2 g/100g to 5 g/100g |
| | | Sucrose | AOAC 20th Edition, Chapter 4, 925.05: 2016 | 0.5 g/100g to 20 g/100g |
| | | Total ash | IS 7874 (part-1), RA 2014: 1975 | 0.5 g/100g to 20 g/100g |
| | | Total sugars | AOAC 20th Edition, Chapter 4- 970.06:2016 | 0.5 g/100g to 20 g/100g |
| | | Urea nitrogen | IS 7874 (part 1), RA 2014: 1975 | 0.1 g/100g to 10 g/100g |

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|------------|---|--------------------------|---|--|
| II. | FOOD & AGRICULTURAL PRODUCTS | | | |
| 1. | Cereals , pulses and byproducts, Animal feeds, Cattle feed, Compounded Mineral mix, Poultry feed, Mineral supplements Beverage powder and complementary food, Wheat atta and flours, Maida, Suji or rava , Rolled oats, Macaroni, spaghetti, vermicelli and egg noodles, Corn flakes, Cereals and | Fat | AOAC 20th Edition. 922.06 : 2016 | 0.1 % to 10 % |
| | | Inorganic Foreign matter | ISO 7301: 2011 | Qualitative(NA) |
| | | Moisture | IS 1010, Reaffirmed 2015: 1968 | 0.1 % to 20 % |
| | | Moisture | IS 1155, Reaffirmed 2015: 1968 | 0.1 % to 20 % |
| | | Acid insoluble ash | IS 1158, Reaffirmed 2015: 1973 | 0.01 % to 5 % |
| | | Crude fiber | IS 10226 (Part-II), RA 2010 -:1982 | 0.1 % w/w to 40 % w/w |
| | | Crude fiber | IS 10226 (Part-II), RA 2010 -:1982 | 0.1 % w/w to 40 % w/w |
| | | 2. | Pulses including Rice | Ash |

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|-----|--|----------------------------|---|--|
| 3. | Non-alcoholic Carbonated and non- Carbonated beverages & concentrates (soft drinks, fruit drinks concentrates), Alcoholic drinks and beverages (Whisky, Rum, Gin, Beer, Vodka) | Caffeine | NBR-STP-CHE-010, Version No.: 00, Issue No.:01: 2016 | 0.01 % to 14 % |
| 4. | Biscuits / French Biscuits, cakes, Bread, Other Bakery and confectionery products | Calcium | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 0.2 mg/kg to 10000 mg/kg |
| | | Calcium | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 10 mg/kg to 1000 mg/kg |
| 5. | Bubble Gum & Chewing Gum | Gum Base Content | IS 6747, Reaffirmed 2010 -: 1981 | 0.5 % to 40 % |
| | | Gum Base Content | IS 6747 RA 2010: 1981 | Qualitative |
| 6. | Cardamom, Mustard, Asafoetida, clove, Ginger, Garlic, Nutmeg, Dhania, chilli , oleoresins, masala, imli, methi, saunf, amchoor, turmeric and oleoresins ,Pepper, Turmeric whole and ground, Paprika Oleoresin, Chilli powder and whole, Ginger Whole , | Acid insoluble ash | IS 1797: 2017 | 0.01 % to 5 % |
| | | Bulk density | USP 41: 2018 | 0.01 g/ml to 1 g/ml |
| | | Calcium | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 10 mg/kg to 1000 mg/kg |
| | | Calcium | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 0.2 mg/kg to 10000 mg/kg |
| | | Cold water soluble extract | IS 1797: 2017 | 1 % to 50 % |
| | Crude fiber | AOAC 20th Edition: 2016 | 1 % to 50 % | |

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|-----|--|---------------------------|---|--|
| | Nutmeg whole, Mace, fennel Mace, Black Mustard whole , Asafoetida (Hing or Hingra) means the oleogumresin obtained from the rhizome and roots of Ferulaots of Ferulagumresin obtained from the rhizome and roots of Ferula | Iron | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 10 mg/kg to 1000 mg/kg |
| | | Iron | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 0.2 mg/kg to 10000 mg/kg |
| | | Magnesium | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 10 mg/kg to 10000 mg/kg |
| | | Magnesium | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 10 mg/kg to 10000 mg/kg |
| | | Moisture content | IS 1797: 2017 | 0.25 % to 15 % |
| | | Nonvolatile ether extract | AOAC 20th Edition: 2016 | 1 % to 25 % |
| | | Potassium | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 10 mg/kg to 100000 mg/kg |
| | | Potassium | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 0.2 mg/kg to 100000 mg/kg |
| | | Sodium chloride | IS 1797: 2017 | 0.1 % to 20 % |
| | | Total ash | IS 1797: 2017 | 0.1 % to 20 % |
| | | Water-insoluble ash | IS 1797: 2017 | 0.01 % to 5 % |
| | | Zinc | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 10 mg/kg to 1000 mg/kg |
| | | Zinc | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 0.2 mg/kg to 10000 mg/kg |
| | Alcohol soluble extract | IS 1797: 2017 | 1 % to 50 % | |

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| 7. | Cereals , pulses and byproducts, Animal feeds, Cattle feed, Compounded Mineral mix, Poultry feed, Mineral supplements Beverage powder and complementary food , Wheat atta and flours, Maida, Suji or rava , Rolled oats, Macaroni, spaghetti, vermicelli and egg noodles, Corn flakes, Cereals and Pulses including Rice | Acid-insoluble ash | IS 1005: 1990 | 0.01 % to 5 % |
| | | Alcoholic acidity | IS 1009, RA 2009: 1979 | 0.01 % to 1 % |
| | | Alcoholic acidity | IS 1155, RA 2015: 1968 | 0.01 % to 1 % |
| | | Calcium | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 10 mg/kg to 1000 mg/kg |
| | | Calcium | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 0.2 mg/kg to 10000 mg/kg |
| | | Copper | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 0.2 mg/kg to 10000 mg/kg |
| | | Crude fiber | IS 1155, RA 2015: 1968 | 0.1 % to 12 % |
| | | Crude fibre | IS 1158, RA 2010: 1973 | 0.5 % to 20 % |
| | | Gluten | IS 1155, RA 2015: 1968 | 1 % to 15 % |
| | | Iron | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 10 mg/kg to 1000 mg/kg |
| | | Magnesium | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 10 mg/kg to 1000 mg/kg |
| | | Manganese | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 0.2 mg/kg to 10000 mg/kg |
| | | Moisture | IS 1158, RA 2010: 1973 | 0.1 % to 20 % |
| | | Moisture | IS 1485, RA 2015: 1993 | 0.1 % to 20 % |
| | | Organic Foreign matter | ISO 7301: 2011 | Qualitative(NA) |
| | | pH | IS 1005: 1990 | 2 to 14 |
| | | pH | AOAC 20th Edition: | 1 to 14 |
| pH | IS 1005: 1990 | 2 to 14 | | |
| Potassium | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 10 mg/kg to 10000 mg/kg | | |

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|-----|--|--------------------------|---|--|
| | | Test for cooking time | IS 1484, RA 2010: 1974 | 1 min to 1 hour |
| | | Zinc | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 1 mg/kg to 1000 mg/kg |
| | | Acid insoluble ash | IS 1155, RA 2015: 1968 | 0.01 % to 1 % |
| | | Acid insoluble ash | IS 1010, RA 2015: 1968 | 0.01 % to 5 % |
| | | Acid insoluble ash | IS 1010, RA 2015: 1968 | 0.01 % to 5 % |
| | | Acid-insoluble ash | IS 1485, RA 2015: 1993 | 0.01 % to 5 % |
| | | Ash | IS 1158, RA 2015: 1973 | 0.1 % w/w to 10 % w/w |
| | | Moisture | IS 1009, RA 2015: 1979 | 0.1 % to 15 % |
| | | Total ash | IS 1155, RA 2015: 1968 | 0.01 % to 5 % |
| | | Total ash | IS 1485, RA 2015: 1993 | 0.1 % to 10 % |
| | | Total ash | IS 1009, RA 2009: 1979 | 0.1 % to 5 % |
| | | Total ash | IS 1010, RA 2015: 1968 | 0.1 % to 10 % |
| 8. | Chocolates / Toffees /Hard boiled confectionery, Milk Chocolates and other related products, Bubble Gum & Chewing Gum , Milk Chocolates, Biscuits / French Biscuits, other Bakery & Confectionery products | Moisture | IS 1011, RA 2013 - : 2002 | 0.1 % w/w to 20 % w/w |
| | | Acidity of extracted fat | IS 1011, RA 2013 - : 2002 | 0.01 % w/w to 5 % w/w |
| | | Sulphur dioxide | IS 6287: 1985 | 0.1 mg/kg to 3000 mg/kg |
| | | Acid-insoluble ash | IS 1011, RA 2013- : 2002 | 0.01 % w/w to 5 % w/w |
| | | Crude Fibre | IS 1011, RA 2013: 2002 | 0.1 % w/w to 20 % w/w |
| | | Energy | NBR-STP-CHE-002, Version no.:00, Issue No.: 01: 2018 | 0.1 Kcal/kg to 10000 Kcal/kg |
| | | Fat | IS 6287, RA 2010 - : 1985 | 0.1 % w/w to 40 % w/w |
| | | Protein | IS 1011, RA 2013 - : 2002 | 0.1 % w/w to 40 % w/w |
| | | Protein | IS 7219, RA 2013: 2002 | 0.1 % w/w to 20 % w/w |
| | | Sulphated Ash | IS 1011, RA 2013 - : 2002 | 0.01 % w/w to 10 %w/w |
| | | Copper | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 0.2 mg/kg to 10000 mg/kg |
| | | Iron | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 10 mg/kg to 1000 mg/kg |

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| | | Magnesium | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 10 mg/kg to 1000 mg/kg |
| | | Manganese | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 0.2 mg/kg to 10000 mg/kg |
| | | Manganese | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 0.2 mg/kg to 10000 mg/kg |
| | | Zinc | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 0.2 mg/kg to 10000 mg/kg |
| | | Zinc | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 1 mg/kg to 1000 mg/kg |
| | | Acidity of extracted fat | FSSAI Lab Manual 3:2016 | 0.01 % w/w to 2 % w/w |
| | | Acidity of extracted fat | FSSAI Lab Manual 3:2016 | Qualitative |
| | | Ash | IS 1011, RA 2013 - : 2002 | 0.1 % w/w to 20 % w/w |
| | | Carbohydrates | NBR-STP-CHE-002, Version no.:00, Issued No.: 01: 2018 | 1 % w/w to 95 % w/w |
| | | Cocoa Solids (On moisture free and fat free basis) | IS 1163, RA 2009 -: 1992 | 1 % w/w to 50 % w/w |
| | | Fat | IS 1011, RA 2009 -: 2002 | 0.1 % w/w to 30 % w/w |
| | | Reducing sugars | IS 6287, RA 2010 - : 1985 | 0.1 % w/w to 85 % w/w |
| | | Sucrose | IS 1011, RA 2013 - : 2002 | 0.1 % w/w to 85 % w/w |
| 9. | Citric acid | Oxalates | IS 13186, RA 2008: 1991 | Qualitative(NA) |
| | | Purity as C ₆ H ₈ O ₇ | IS 13186, RA 2008: 1991 | 80 % w/w to 100 % w/w |
| | | Readily carbonizable substance | IS 13186, RA 2008: 1991 | Qualitative(NA) |

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|-----|--|-----------------------------------|--|---|
| 10. | Cocoa Mass/Nibs, powder, Other Cocoa products, and Coffee products | Acid insoluble ash | IS 3077, RA 2011: 1992 | 0.01 % to 5 % |
| | | Aqueous extracts on dry basis m/m | FSSAI manual of methods of analysis of foods - Beverages (coffee, tea, cocoa, sugar and sugar products and confectionery products): 2016 | 1.0 % w/w to 50.0 % w/w |
| | | Ash | IS 3077, RA 2011: 1992 | 0.1 % to 20 % |
| | | Caffeine | NBR-STP-CHE-010, Version No.: 00, Issue No.:01: 2018 | 0.01 % to 14 % |
| | | Fat | IS 3077, RA 2011: 1992 | 0.1 % to 25 % |
| | | Hydrocyanic acid | AOAC 20th Edition (920.144): 2016 | Qualitative(Present / Absent) |
| 11. | Condensed Milk, Skimmed Milk Powder, Dairy Cream, Butter | Moisture | IS 3077, RA 2011: 1992 | 0.1 % to 5.0 % |
| | | Solubility | FSSAI Manual of methods of analysis of foods – Beverages (Coffee, Tea, Cocoa, Chicory, sugar and sugar products and confectionery products) : 2016 | Qualitative(NA) |
| | | Curd | IS 13690, RA 2013: 1992 | 0.1 % w/w to 5 % w/w |
| | | Fat | FSSAI Lab Manual : 2016 | 1 % w/w to 50 % w/w |
| | | FFA as oleic acid | IS 548 (Part 1), RA 2015: 1964 | 0.1 % w/w to 20 % w/w |
| | | Hydrocyanic acid | AOAC 20th Edition (920.144): 2016 | Qualitative(NA) |
| | | Moisture | FSSAI Lab Manual : 2016 | 1 % w/w to 25 % w/w |
| | | Moisture | IS 13690: 1992 | 1 % w/w to 20 % w/w |
| | | Peroxide value | IS 548 (Part 1), RA 2015: 1964 | 0.1 milli eqvt of oxygen/ kg fat to 15 milli eqvt of oxygen/ kg fat |
| | | | | |

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| | | Reichert value | IS 548 (Part 1), RA 2015: 1964 | 1 to 40 |
| | | Titration acidity | IS 13690, RA 2013: 1992 | 0.1 % w/w to 5 % w/w |
| | | Total Acidity | IS 13334 (Part 1), RA 2010 : 1998 | 0.1 % w/w to 5 % w/w |
| | | Total ash | FSSAI Lab Manual : 2016 | 0.1 % w/w to 25 % w/w |
| | | Fat | IS 13690, RA 2013 : 1992 | 1 % w/w to 90 % w/w |
| 12. | Condensed Milk, Skimmed Milk Powder, Dairy Cream, Butter, Other Milk and Milk products. | Copper | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 0.2 mg/kg to 10000 mg/kg |
| | | Copper | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 0.2 mg/kg to 10000 mg/kg |
| | | Manganese | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 0.2 mg/kg to 10000 mg/kg |
| | | potassium | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 10 mg/kg to 1000 mg/kg |
| | | calcium | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 10 mg/kg to 1000 mg/kg |
| 13. | Edible Maize Starch (Corn Flour), Wheat atta and flours, Maida, Suji or rava | Acid insoluble ash | IS 1005, RA 2009: 1992 | 0.01 % w/w to 1 % w/w |
| | | Alcoholic acidity | IS 1005, RA 2009: 1992 | 0.01 % w/w to 1 % w/w |
| | | Alkaline paste | IS 4706 Part(1),RA 2015: 1978 | Qualitative(NA) |
| | | Ash | IS 1005, RA 2009: 1992 | 0.01 % w/w to 5 % w/w |
| | | Cold water soluble extract | IS 1005, RA 2013: 1992 | 0.1 % w/w to 10 % w/w |
| | | Crude Fibre | IS 1005, RA 2013: 1992 | 0.1 % w/w to 12 % w/w |
| | | Fat | IS 1005, RA 2013: 1992 | 0.1 % w/w to 10 % w/w |
| | | Free acidity | IS 1005, RA 2013: 1992 | 0.1 % w/w to 10 % w/w |

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| | | Hydrocyanic acid | AOAC 20th Edition: 2016 | Qualitative(NA) |
| | | Moisture | IS 1005, RA 2013: 1992 | 1 % w/w to 25 % w/w |
| | | Outer residual skin | IS 4706 Part(1), RA 2015: 1978 | Qualitative(NA) |
| | | pH | IS 4706 Part(2), RA 2015: 1978 | 2 to 14 |
| | | pH of aqueous extract | IS 4706 Part(2), RA 2015: 1978 | 1 to 14 |
| | | Rodent excreta | IS 4706 Part(1), RA 2015 : 1978 | Qualitative(NA) |
| | | Starch | IS 4706 Part(2), RA 2015: 1978 | 1 % w/w to 100 % w/w |
| | | Starch | IS 1005, RA 2013: 1992 | 1 % w/w to 100 % w/w |
| | | Sulphated ash | IS 1005, RA 2013: 1992 | 0.01 % w/w to 20 % w/w |
| 14. | Fruit Juice, Beverages, Squash, Cordial, Crush, carbonated juices, Concentrates, powders, Puree, Pickles, Jam and Thermally Processed Products, Strawberry jam , Mixed fruit concentrate, Tomato Sauce, Ketchup, puree, Tomato Concentrate, sauces, and Other Food Dressing | Ash | IS 1656, RA 2018: 2007 | 0.05 mg/kg to 1000 mg/kg |
| | | Benzoic Acid | NBR-STP-CHE-009, Version No.: 00, Issue No.:01: 2016 | 1 mg/kg to 1000 mg/kg |
| | | Carbohydrates | IS 1656, RA 2012: 2007 | 1 % w/w to 70 % w/w |
| | | Crude fibre | IS 1656, RA 2018: 2007 | 0.01 % w/w to 20 %w/w |
| | | Crude fibre | FSSAI Manual of methods of analysis of foods - Beverages (Coffee, Tea, Cocoa, Chicorey, Sugar and Sugar products & Confectionery products): 2016 | 0.01 % w/w to 20 %w/w |
| | | Energy | NBR-STP-CHE-002, Version No.: 00, Issue No.:01: 2018 | 20 Kcals to 700 Kcals |
| | | Fat | IS 1656, RA 2018: 2007 | 0.01 % to 100 % |

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|-----|---|-------------------------|---|--|
| | | Fat | FSSAI Manual of methods of analysis of foods - Fruits and Vegetable products : 2016 | 0.1 % w/w to 10.0 % w/w |
| | | Moisture | IS 1656, RA 2018: 2007 | 0.01 % w/w to 90 %w/w |
| | | Moisture | FSSAI Lab Manual:2016 | 0.1 % w/w to 90 % w/w |
| | | Protein | IS 1656, RA 2018: 2007 | 0.01 % w/w to 30 %w/w |
| | | Protein | FSSAI Lab Manual: 2016 | 0.01 % w/w to 30 %w/w |
| | | Riboflavin (Vitamin B2) | FSSAI Lab Manual : 2016 | 1 mg/kg to 1000 mg/kg |
| 15. | Fruit juices, Beverages, cereal and pulses, its products, Herbal products, Nutritional supplements, Other ready to eat products | Carnosine | IS 2923: 1995 | Qualitative(NA) |
| | | Carnosine | IS 2923: 1995 | Qualitative(NA) |
| | | Ponceau 4R | IS 2558: 1994 | Qualitative(NA) |
| | | Vitamin A | NBR-STP-CHE-004, Version No.: 00, Issue No.:01: 2018 | 1 mg/kg to 1000 mg/kg |
| | | Vitamin B1 | NBR-STP-CHE-003, Verison No.: 00, Issue No.: 01: 2018 | 1 mg/kg to 1000 mg/kg |
| | | Vitamin B2 | NBR-STP-CHE-003, Verison No.: 00, Issue No.: 01: 2018 | 1 mg/kg to 1000 mg/kg |
| | | Vitamin B6 | NBR-STP-CHE-003, Verison No.: 00, Issue No.: 01: 2018 | 1 mg/kg to 1000 mg/kg |
| | | Vitamin C | NBR-STP-CHE-003, Version No.: 00, Issue No.:01: 2018 | 1 mg/kg to 1000 mg/kg |
| | | Vitamin E | NBR-STP-CHE-004, Version No.: 00, Issue No.:01: 2018 | 1 mg/kg to 1000 mg/kg |

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| | | Brilliant blue | IS 6406, RA 2014: 1994 | Qualitative(NA) |
| | | Erythrosine | IS 1697, RA 2014: 1994 | Qualitative(NA) |
| | | Fastgreen FCF | IS 6022, RA 2014: 1994 | Qualitative(NA) |
| | | Sunset yellow | IS 1695: 2014 | Qualitative(NA) |
| | | Tartrazine | IS 1694, RA 2014: 1994 | Qualitative(NA) |
| 16. | Honey & Honey Products | Acidity | IS 4941, RA 2008: 1994 | 0.01 % w/w to 5 % w/w |
| | | Aflatoxin (B1,B2,G1,G2) | NBR-STP-CHE-008, Version No.: 00, Issue No.:01: 2018 | 0.5 µg/kg to 50 µg/kg |
| | | Ash | IS 4941, RA 2008: 1994 | 0.01 % w/w to 20 % w/w |
| | | Fiehe's test | IS 4941, RA 2008: 1994 | Qualitative(NA) |
| | | Fructose/Glucose ratio | IS 4941, RA 2008: 1994 | 0.8 to 5 |
| | | Hydrocyanic acid | AOAC 20th Edition (920.144): 2016 | Qualitative(NA) |
| | | Moisture | IS 4941, RA 2008: 1994 | 1 % w/w to 50 % w/w |
| | | Optical Density at 660 nm | IS 4941, RA 2008: 1994 | 0.1 to 0.3 |
| | | Refractive Index | FSSAI lab Manual: 2016 | 1.300 to 1.700 |
| | | Specific gravity | IS 4941, RA 2008: 1994 | 0.6 to 2 |
| | | Sucrose | IS 4941, RA 2008: 1994 | 1 % w/w to 90 % w/w |
| | | Total reducing sugars | IS 4941, RA 2008: 1994 | 5 % w/w to 90 % w/w |
| 17. | Iodized/common salt | Calcium | IS 253: 2014 | 0.1 mg/kg to 100 mg/kg |
| | | Calcium | IS 253: 2014 | 0.1 mg/kg to 100 mg/kg |
| | | Iodine content | IS 253: 2014 | 0.1 mg/kg to 100 mg/kg |
| | | Magnesium | IS 253: 2014 | 0.1 mg/kg to 100 mg/kg |
| | | Magnesium | IS 253: 2014 | 0.1 mg/kg to 100 mg/kg |
| | | Matter insoluble in water | IS 253: 2014 | 0.1 % w/w to 10 % w/w |
| | | Matter soluble in water Other than Sodium Chloride | IS 253: 2014 | 0.1 % w/w to 10 % w/w |
| | | Moisture | IS 253: 2014 | 0.1 % w/w to 50 % w/w |
| | | Sodium Chloride (NaCl) | IS 253: 2014 | 1 % w/w to 100 % w/w |
| | | Sulphates | IS 253: 2014 | 0.1 mg/kg to 100 mg/kg |

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| 18. | Iodized/common salt, Other food additives and preservatives | Copper | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 0.1 mg/kg to 10000 mg/kg |
| | | Copper | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 0.1 mg/kg to 10000 mg/kg |
| 19. | Meat, Egg & Poul-try Products (Chicken, Mutton,Egg, Frozen & Canned Meat Products, Processed Meat & Poultry Products) | Acid insoluble ash | IS 7582: 1975 | 0.001 % w/w to 10 % w/w |
| | | Ash | AOAC 20th Edition 920.153, : 2016 | 0.1 % w/w to 20 % w/w |
| | | Crude Fat | AOAC 20th Edition 991.36: 2016 | 1 % w/w to 40 % w/w |
| | | Fat | IS 5960 part 3, RA 2010: 1970 | 0.1 % w/w to 40 % w/w |
| | | protein | IS 7219, RA 2015: 1973 | 0.1 % w/w to 40 % w/w |
| | | Crude Fat | AOAC 20th Edition 960.39,: 2016 | 1 % to 40 % |
| | | Moisture | IS:5960 (part-v), RA 2013: 2001 | 0.01 % w/w to 80 % w/w |
| | | Moisture | AOAC 20th Edition 950.46 : 2016 | 0.1 % to 90 % |
| | | Protein | IS 5960, RA 2013: 1996 | 0.1 % to 40 % |
| | | Total ash | IS 5960 part 5, RA 2013: 2001 | 0.1 % w/w to 20 % w/w |
| | | Fat | IS 12542, RA 2013: 1988 | 1 % to 40 % |
| | | Crude Protein | AOAC 20th Edition 928.08: 2016 | 0.1 % to 40 % |
| 20. | Non-alcoholic Carbonated and non-Carbonated beverages & concentrates (soft drinks, fruit drinks | Copper | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 0.01 mg/kg to 10000 mg/kg |

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|-----|--|-------------------------|---|--|
| 21. | Non-alcoholic Carbonated and non-Carbonated beverages & concentrates (soft drinks, fruit drinks) | pH | IS 12074, RA 2010: 1987 | 2 to 13 |
| 22. | Non-alcoholic Carbonated and non-Carbonated beverages & concentrates (soft drinks, fruit drinks concentrates) , Alcoholic drinks and beverages (Whisky, Rum, Gin, Beer, Vodka) | pH | IS 3752, RA 2015 - : 2005 | 1 to 14 |
| | | pH | IS 3752, RA 2015 - : 2005 | 1 to 14 |
| | | Copper | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 0.01 mg/kg to 10000 mg/kg |
| | | Aldehydes | IS 3752, RA 2009 -: 2005 | 10 mg/100mL to 100 mg/100mL |
| | | Ash content | FSSAI Manual of methods of Analysis of foods - Fruits and vegetable products : 2016 | Qualitative |
| | | Ash content | IS 3752, RA 2009 -: 2005 | 0.1 % to 10 % |
| | | Ash content | FSSAI Manual of methods of Analysis of foods - Fruits and vegetable products : 2016 | 0.05 % to 5 % |
| | | Benzoic acid | NBR-STP-CHE-009, Version No.: 00, Issue No.:01: 2016 | 1 mg/kg to 1000 mg/kg |
| | | Caramel | AOAC 20th Edition:2016 | Qualitative(Present / Absent) |
| | | Esters | IS 3752, RA 2009 -: 2005 | 2 g/100 Lit to 200 g/100 Lit |
| | | pH | IS 12074, RA 2010: 1987 | 2 to 13 |

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|-----|--|---|---|--|
| | | Residue on evaporation | FSSAI Manual of methods of Analysis of foods - Alcoholic Beverages: 2016 | 1 % to 20 % |
| | | Sorbic acid | NBR-STP-CHE-009, Version No.: 00, Issue No.:01: 2018 | 1 mg/kg to 1000 mg/kg |
| | | Specific gravity | IS 3752, RA 2015: 2005 | 0.01 to 1 |
| | | Total Acid as Tartaric Acid expressed in terms of 100 ml of absolute | FSSAI manual of methods and analysis of foods - Alcoholic Beverages: 2016 | 0.05 g/100mL to 5 g/100mL |
| | | Total Acidity | IS 3752, RA 2015: 2005 | 0.01 % to 1 % |
| | | Volatile Acid as Acetic Acid Expressed in terms of 100 Ltrs of absl0.05 | IS 3752, RA 2015: 2005 | 0.05 g/100 Lit to 10 g/100 Lit |
| | | Volatile acidity | IS 3752, RA 2015: 2005 | 0.01 % to 1 % |
| 23. | Palmolein Oil, Other Oils, Fats & Related Products | Acetyl Value | IS 548 (part-1), RA 2015: 1964 | 1 to 300 |
| | | Acid value of extracted fat | IS 548 (part-1), RA 2015: 1964: 1976 | 0.01 % to 5 % |
| | | Free fatty acid (as Oleic acid) | IS 548 (part-1), RA 2015: 1964 | 0.1 %w/w to 25 % w/w |
| | | Hydrocyanic acid | AOAC 20th Edition (920.144): 2016 | Qualitative(NA) |
| | | Hydroxyl value | IS 548 (part-1), RA 2015: 1964 | 1 to 300 |
| | | Kusum oil & other oils containing | IS 548(part- 2), RA 2010: 1976 | Qualitative(NA) |
| | | Moisture | IS 548 (part-1), RA 2015: 1964 | 0.1 % w/w to 25 % w/w |
| | | Neem Oil | IS 548(part- 2), RA 2010: 1976 | Qualitative(NA) |

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| | | Peroxide value | IS 548 (part-1), RA 2015: 1964 | 0.01 meq/kg to 10 meq/kg |
| | | Reichert-Meissel Value | IS 548 (part-1), RA 2015: 1964 | 1 units to 50 units |
| | | Seesame Oil | IS 548(part- 2), RA 2010: 1976 | Qualitative(NA) |
| | | Unsaponifiable matter | IS 548 (part-1), RA 2015: 1964 | 0.1 % w/w to 50 % w/w |
| | | Iron | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 10 mg/kg to 1000 mg/kg |
| | | Iron | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 0.2 mg/kg to 10000 mg/kg |
| | | Kanjara Oil & other oils | IS 548(part- 2), RA 2010: 1976 | Qualitative(NA) |
| | | magnesium | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 10 mg/kg to 1000 mg/kg |
| | | magnesium | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 0.2 mg/kg to 10000 mg/kg |
| | | Potassium | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 10 mg/kg to 1000 mg/kg |
| | | Potassium | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 0.2 mg/kg to 10000 mg/kg |
| | | Refractive Index | IS 548 (part-1), RA 2015: 1964 | 1.300 to 1.7 |
| | | Saponification value | IS 548 (part-1), RA 2015: 1964 | 1 mg/gm to 300 mg/gm |

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| 24. | Sodium bi carbonate | Chlorides | IS 2124, RA 2010: 2000 | 0.01 mg/kg to 10 mg/kg |
| | | Insoluble matter | IS 2124, RA 2010: 2000 | 0.01 % w/w to 10 % w/w |
| | | pH 1% w/v soln | IS 2124, RA 2010: 2000 | 1.0 to 10 |
| | | Purity | IS 2124, RA 2010: 2000 | 80 % w/w to 100 % w/w |
| | | Sulphates | IS 2124, RA 2010: 2000 | 0.01 mg/kg to 10 mg/kg |
| 25. | Sugar and sugar products | Calcium | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 10 mg/kg to 1000 mg/kg |
| | | Calcium | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 0.01 mg/kg to 10000 mg/kg |
| | | Iron | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 0.2 mg/kg to 10000 mg/kg |
| | | Potassium | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 0.2 mg/kg to 10000 mg/kg |
| | | Zinc | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 1 mg/kg to 1000 mg/kg |
| | | Zinc | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 0.02 mg/kg to 10000 mg/kg |
| 26. | Sugar, Refined sugar, Icing Sugar, Cube Sugar | Moisture | IS 15279, RA 2013: 2003 | 0.1 % w/w to 5 % w/w |
| | | Reducing sugars | IS 6287, RA 2015: 1985 | 1 % w/w to 70 % w/w |
| | | Sucrose | IS 15279, RA 2013: 2003 | 0.1 % to 100 % |
| | | Sulphated ash | IS 15279, RA 2013: 2003 | 0.01 % w/w to 5 % w/w |
| | | Sulphur dioxide | AOAC 20th Edition: 2016 | 1 mg/kg to 1500 mg/kg |
| 27. | Tea and Tea products | Acid insoluble ash | IS:13857, RA 2009: 1993 | 0.1 % w/w to 5 % w/w |
| | | Caffeine | NBR-STP-CHE-010, Version No.: 00, Issue No.:01: 2018 | 0.01 % w/w to 14 % w/w |
| | | Crude fibre | IS:10266 Part(1): 1982 | 0.01 % w/w to 30 % w/w |
| | | Hydrocyanic acid | AOAC 20th Edition: 2016 | Qualitative(NA) |
| | | Water soluble ash | IS 13855, RA 2009: 1993 | 0.1 % w/w to 100 % w/w |

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| | | Ash | IS 13854, RA 2009: 1994 | 0.1 % w/w to 20 % w/w |
| | | Moisture | FSSAI Lab Manual: 2016 | 0.5 % w/w to 15 % w/w |
| | | Chromate test | IS 3576: 2010 | Qualitative (Present / Absent) |
| 28. | Turmeric whole and ground | Curcumin | NBR-STP-CHE-001, Version no.:00, Issue No.: 01: 2018 | 0.1 % to 100 % |
| 29. | Vegetables & Vegetable products | Calcium | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 10 mg/kg to 1000 mg/kg |
| | | Calcium | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 0.2 mg/kg to 10000 mg/kg |
| | | Iron | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 10 mg/kg to 1000 mg/kg |
| | | Iron | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 0.2 mg/kg to 10000 mg/kg |
| | | Magnesium | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 10 mg/kg to 1000 mg/kg |
| | | Magnesium | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 0.2 mg/kg to 10000 mg/kg |
| | | Potassium | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 0.2 mg/kg to 10000 mg/kg |
| III. | NUTRACEUTICALS & FUNCTIONAL FOODS | | | |
| 1. | Glucosamine HCL | Loss on drying | USP 41- Dietary supplements/ Glucosamine 4669, Volume 3, <731>: 2018 | 0.1 % to 10 % |

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|------------|--|-------------------------|--|--|
| | | pH | USP 41 - Dietary supplements, Page 4669, Volume 3, <791>: 2018 | 2 to 14 |
| | | Residue on Ignition | USP 41- Dietary supplements/ Glucosamine 4669, Volume 3, <281>: 2018 | 0.01 % to 1 % |
| IV. | RESIDUES IN FOOD PRODUCTS | | | |
| 1. | Glucosamine sulphate potassium and other Nutraceutical products | Loss on drying | USP 41- Page 4671, Volume 3, <731>: 2018 | 0.01 % to 10 % |
| | | pH | USP 41- Page 4671, Volume 3, <791>: 2018 | 2 to 14 |
| | | Residue on ignition | USP 41- Page 4671, Volume 3, <281>: 2018 | 10 % to 50 % |
| | | Sulphate content | USP 41 - Page 4671, Volume 3: 2018 | 1 % to 30 % |
| 2. | cereals and pulses and its products, milk and milk products, Spices & condiments, Non-alcoholic beverages, fruits and vegetable products, Tea and Tea products, coffee and coffee products, Herbal extracts. | Butachlor | NBR-STP-CHE-005, Version No.: 00, Issue No.:01 : 2018 | 0.01 mg/kg to 1 mg/kg |
| 3. | Biscuits / French Biscuits, cakes, Bread, Other Bakery and confectionery products | Arsenic | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 0.01 mg/kg to 1000 mg/kg |

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|-----|--|-------------------------|---|--|
| 4. | Cereals , pulses and byproducts, Animal feeds, Cattle feed, Compounded Mineral mix, Poultry feed, Mineral supplements Beverage powder and complementary food , Wheat atta and flours, Maida, Suji or rava , Rolled oats, Macaroni, spaghetti, vermicelli and egg noodles, Corn flakes, Cereals and Pulses including Rice | Chromium | NBR-STP-CHE-007, Version no.:00, Issue no.:01: 2018 | 0.01 mg/kg to 1000 mg/kg |
| | | Molybdenum | AOAC 20th Edition by ICP MS: 2016 | 0.01 mg/kg to 1000 mg/kg |
| | | Selenium | NBR-STP-CHE-007, Version no.:00, Issue no.:01: 2018 | 0.01 mg/kg to 1000 mg/kg |
| 5. | cereals and pulses and its products, milk and milk products, Spices & condiments, Non-alcoholic beverages, frutis and vegetable products, Tea and Tea products, coffee and coffee products, Herbal extracts. | 2,4'DDE | NBR-STP-CHE-006, Version No.: 00, Issue No.:01: 2018 | 0.01 mg/kg to 1 mg/kg |
| | | 2,4'DDT | NBR-STP-CHE-006, Version No.: 00, Issue No.:01: 2018 | 0.01 mg/kg to 1 mg/kg |
| | | 2,4-D | NBR-STP-CHE-005, Version No.: 00, Issue No.:01 : 2018 | 0.01 mg/kg to 1 mg/kg |
| | | 4,4-DDD | NBR-STP-CHE-006, Version No.: 00, Issue No.:01: 2018 | 0.01 mg/kg to 1 mg/kg |
| | | 4,4-DDE | NBR-STP-CHE-006, Version No.: 00, Issue No.:01: 2018 | 0.01 mg/kg to 1 mg/kg |

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| | | 4,4-DDT | NBR-STP-CHE-006, Version No.: 00, Issue No.:01: 2018 | 0.01 mg/kg to 1 mg/kg |
| | | 4-Bromo-2-chlorophenol | NBR-STP-CHE-006, Version No.: 00, Issue No.:01: 2018 | 0.01 mg/kg to 1 mg/kg |
| | | Acephate | NBR-STP-CHE-005, Version No.: 00, Issue No.:01: 2018 | 0.01 mg/kg to 1 mg/kg |
| | | Acetamipride | NBR-STP-CHE-006, Version No.: 00, Issue No.:01 : 2018 | 0.01 mg/kg to 1 mg/kg |
| | | B-Endosulfon | NBR-STP-CHE-006, Version No.: 00, Issue No.:01: 2018 | 0.01 mg/kg to 1 mg/kg |
| | | Benomyl | NBR-STP-CHE-005, Version No.: 00, Issue No.:01: 2018 | 0.01 mg/kg to 1 mg/kg |
| | | Bifenthrin | NBR-STP-CHE-005, Version No.: 00, Issue No.:01: 2018 | 0.01 mg/kg to 1 mg/kg |
| | | Buprofezin | NBR-STP-CHE-005, Version No.: 00, Issue No.:01 : 2018 | 0.01 mg/kg to 1 mg/kg |
| | | Carbendazim | NBR-STP-CHE-005, Version No.: 00, Issue No.:01: 2018 | 0.01 mg/kg to 1 mg/kg |
| | | Carbosulfan | NBR-STP-CHE-005, Version No.: 00, Issue No.:01 : 2018 | 0.01 mg/kg to 1.0 mg/kg |
| | | Chlorfenvinphos | NBR-STP-CHE-006, Version No.: 00, Issue No.:01 : 2018 | 0.01 mg/kg to 1 mg/kg |

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| | | Cis-chlordane | NBR-STP-CHE-005, Version No.: 00, Issue No.:01 : 2018 | 0.01 mg/kg to 1 mg/kg |
| | | Clodinafop-propargyl | NBR-STP-CHE-005, Version No.: 00, Issue No.:01: 2018 | 0.01 mg/kg to 1 mg/kg |
| | | Clothianidin | NBR-STP-CHE-005, Version No.: 00, Issue No.:01: 2018 | 0.01 mg/kg to 1 mg/kg |
| | | cyfluthrin | NBR-STP-CHE-006, Version No.: 00, Issue No.:01 : 2018 | 0.01 mg/kg to 1 mg/kg |
| | | cypermethrin | NBR-STP-CHE-006, Version No.: 00, Issue No.:01 : 2018 | 0.01 mg/kg to 1 mg/kg |
| | | Deltamethrin | NBR-STP-CHE-006, Version No.: 00, Issue No.:01: 2018 | 0.01 mg/kg to 1 mg/kg |
| | | d-HCH | NBR-STP-CHE-006, Version No.: 00, Issue No.:01: 2018 | 0.01 mg/kg to 1 mg/kg |
| | | Dicofol | NBR-STP-CHE-005, Version No.: 00, Issue No.:01 : 2018 | 0.01 mg/kg to 1 mg/kg |
| | | Endosulfan sulfate | NBR-STP-CHE-006, Version No.: 00, Issue No.:01: 2018 | 0.01 mg/kg to 1 mg/kg |
| | | Endrin | NBR-STP-CHE-006, Version No.: 00, Issue No.:01: 2018 | 0.01 mg/kg to 1 mg/kg |
| | | Esfenvalerate | NBR-STP-CHE-005, Version No.: 00, Issue No.:01 : 2018 | 0.01 mg/kg to 1 mg/kg |

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| | | Fenoxaprop-p-ethyl | NBR-STP-CHE-005, Version No.: 00, Issue No.:01: 2018 | 0.01 mg/kg to 1 mg/kg |
| | | Fenoxaprop-p-ethyl | NBR-STP-CHE-005, Version No.: 00, Issue No.:01: 2018 | 0.01 mg/kg to 1 mg/kg |
| | | Fenvalerate | NBR-STP-CHE-006, Version No.: 00, Issue No.:01: 2018 | 0.01 mg/kg to 1 mg/kg |
| | | Fipronil | NBR-STP-CHE-005, Version No.: 00, Issue No.:01: 2018 | 0.01 mg/kg to 1 mg/kg |
| | | Fluazifop-p-butyl | NBR-STP-CHE-005, Version No.: 00, Issue No.:01: 2018 | 0.01 mg/kg to 1 mg/kg |
| | | Fluchloralin | NBR-STP-CHE-005, Version No.: 00, Issue No.:01 : 2018 | 0.01 mg/kg to 1 mg/kg |
| | | Fluvalinate | NBR-STP-CHE-005, Version No.: 00, Issue No.:01: 2018 | 0.01 mg/kg to 1 mg/kg |
| | | Formothion | NBR-STP-CHE-005, Version No.: 00, Issue No.:01: 2018 | 0.01 mg/kg to 1 mg/kg |
| | | Hexaconazole | NBR-STP-CHE-005, Version No.: 00, Issue No.:01: 2018 | 0.01 mg/kg to 1 mg/kg |
| | | Hexazinone | NBR-STP-CHE-005, Version No.: 00, Issue No.:01: 2018 | 0.01 mg/kg to 1 mg/kg |
| | | Hexythiazox | NBR-STP-CHE-005, Version No.: 00, Issue No.:01: 2018 | 0.01 mg/kg to 1 mg/kg |

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|-----|----------------------------|-------------------------|---|--|
| | | Imidazole | NBR-STP-CHE-005, Version No.: 00, Issue No.:01 : 2018 | 0.01 mg/kg to 1 mg/kg |
| | | Iprobenfos | NBR-STP-CHE-005, Version No.: 00, Issue No.:01 : 2018 | 0.01 mg/kg to 1 mg/kg |
| | | MCPA | NBR-STP-CHE-005, Version No.: 00, Issue No.:01: 2018 | 0.01 mg/kg to 1 mg/kg |
| | | mefenoxam | NBR-STP-CHE-005, Version No.: 00, Issue No.:01: 2018 | 0.01 mg/kg to 1 mg/kg |
| | | Metalaxyl | NBR-STP-CHE-005, Version No.: 00, Issue No.:01: 2018 | 0.01 mg/kg to 1 mg/kg |
| | | monocrotophos | NBR-STP-CHE-006, Version No.: 00, Issue No.:01 : 2018 | 0.01 mg/kg to 1 mg/kg |
| | | O,P- DDT | NBR-STP-CHE-006, Version No.: 00, Issue No.:01 : 2018 | 0.01 mg/kg to 1 mg/kg |
| | | Omethoate | NBR-STP-CHE-006, Version No.: 00, Issue No.:01: 2018 | 0.01 mg/kg to 1 mg/kg |
| | | Penconazole | NBR-STP-CHE-006, Version No.: 00, Issue No.:01 : 2018 | 0.01 mg/kg to 1 mg/kg |
| | | Permethrin | NBR-STP-CHE-006, Version No.: 00, Issue No.:01: 2018 | 0.01 mg/kg to 1 mg/kg |
| | | Phoratesulfone | NBR-STP-CHE-006, Version No.: 00, Issue No.:01 : 2018 | 0.01 mg/kg to 1 mg/kg |

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|-----|----------------------------|-------------------------|---|--|
| | | phosphamidon | NBR-STP-CHE-006, Version No.: 00, Issue No.:01: 2018 | 0.01 mg/kg to 1 mg/kg |
| | | p-Nitrodiphenyl ether | NBR-STP-CHE-005, Version No.: 00, Issue No.:01: 2018 | 0.01 mg/kg to 1 mg/kg |
| | | profenofos | NBR-STP-CHE-006, Version No.: 00, Issue No.:01 : 2018 | 0.01 mg/kg to 1 mg/kg |
| | | Simazine | NBR-STP-CHE-005, Version No.: 00, Issue No.:01: 2018 | 0.01 mg/kg to 1 mg/kg |
| | | Spiromesifen | NBR-STP-CHE-005, Version No.: 00, Issue No.:01: 2018 | 0.01 mg/kg to 1 mg/kg |
| | | β-HCH | NBR-STP-CHE-006, Version No.: 00, Issue No.:01: 2018 | 0.01 mg/kg to 1 mg/kg |
| | | Tebuconazole | NBR-STP-CHE-005, Version No.: 00, Issue No.:01: 2018 | 0.01 mg/kg to 1 mg/kg |
| | | Thiaclopride | NBR-STP-CHE-005, Version No.: 00, Issue No.:01: 2018 | 0.01 mg/kg to 1 mg/kg |
| | | Trifloxystrobin | NBR-STP-CHE-006, Version No.: 00, Issue No.:01 : 2018 | 0.01 mg/kg to 1 mg/kg |
| | | Difenoconazol | NBR-STP-CHE-005, Version No.: 00, Issue No.:01: 2018 | 0.01 mg/kg to 1 mg/kg |
| | | Cadmium | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 0.01 mg/kg to 1000 mg/kg |

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|-----|--|-------------------------|---|--|
| | | Chromium | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 10 µg/kg to 1000 µg/kg |
| | | Lead | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 10 µg/kg to 1000 µg/kg |
| | | molybdenum | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 10 µg/kg to 1000 µg/kg |
| | | Silver | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 10 µg/kg to 1000 µg/kg |
| 6. | Chocolates / Toffees /Hardboiled confectionery, Milk Chocolates and other related products, Bubble Gum & Chewing Gum, Milk Chocolates, Biscuits / French Biscuits, Other Bakery and confectionery products | Sodium | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 10 µg/kg to 100000 µg/kg |
| | | Tin | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 10 µg/kg to 1000 µg/kg |
| 7. | Coffee, cocoa products | Arsenic | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 0.01 mg/kg to 1000 mg/kg |
| | | Cadmium | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 0.01 mg/kg to 1000 mg/kg |

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|-----|---|-------------------------|---|--|
| | | Copper | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 0.2 mg/kg to 10000 mg/kg |
| | | Lead | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 0.01 mg/kg to 1000 mg/kg |
| | | Mercury | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 10 µg/kg to 1000 µg/kg |
| | | Tin | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 10 µg/kg to 1000 µg/kg |
| 8. | Condensed Milk, Skimmed Milk Powder, Dairy Cream, Butter, Other Milk and Milk products. | Arsenic | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 0.01 mg/kg to 1000 mg/kg |
| | | Cadmium | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 0.01 mg/kg to 1000 mg/kg |
| | | Chromium | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 0.01 mg/kg to 1000 mg/kg |
| | | Lead | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 0.01 mg/kg to 1000 mg/kg |
| | | Magnesium | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 10 µg/kg to 10000 µg/kg |
| | | Mercury | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 10 µg/kg to 1000 µg/kg |
| | | Molybdenum | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 0.01 mg/kg to 1000 mg/kg |

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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 |
|-----|---|-------------------------|---|--|
| | | Selenium | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 0.01 mg/kg to 1000 mg/kg |
| | | Tin | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 0.01 mg/kg to 1000 mg/kg |
| | | Zinc | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 10 µg/kg to 10000 µg/kg |
| 9. | Herbal Extracts and Other Nutraceutical Products | Arsenic | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 0.01 mg/kg to 1000 mg/kg |
| | | Cadmium | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 0.01 mg/kg to 1000 mg/kg |
| | | Lead | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 0.01 mg/kg to 1000 mg/kg |
| | | Mercury | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 10 µg/kg to 1000 µg/kg |
| 10. | Honey & Honey Products | Mercury | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 10 µg/kg to 1000 µg/kg |
| 11. | Iodized/common salt, Other food additives and preservatives | Arsenic | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 0.01 mg/kg to 1000 mg/kg |
| | | Cadmium | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 10 µg/kg to 1000 µg/kg |
| | | Lead | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 0.01 mg/kg to 1000 mg/kg |

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|-----|---|-------------------------|---|--|
| | | Mercury | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 10 µg/kg to 1000 µg/kg |
| | | Tin | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 0.01 mg/kg to 1000 mg/kg |
| 12. | Non-alcoholic Carbonated and non- Carbonated beverages & concentrates (soft drinks, fruit drinks concentrates) , Alcoholic drinks and beverages (Whisky, Rum, Gin, Beer, Vodka) | Manganese | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 0.01 mg/kg to 100 mg/kg |
| | | Arsenic | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 0.01 mg/kg to 100 mg/kg |
| | | Cadmium | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 10 µg/kg to 1000 µg/kg |
| | | Chromium | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 0.01 mg/kg to 100 mg/kg |
| | | Lead | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 0.01 mg/kg to 100 mg/kg |
| | | Mercury | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 10 µg/kg to 1000 µg/kg |
| | | Molybdenum | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 0.01 mg/kg to 100 mg/kg |
| | | Selenium | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 10 µg/kg to 1000 µg/kg |
| | | Tin | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 0.01 mg/kg to 100 mg/kg |

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|------------|---|-----------------------------------|---|--|
| 13. | Palmolein Oil, Other Oils, Fats & Related Products, | Calcium | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 10 µg/kg to 100000 µg/kg |
| | | Zinc | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 10 mg/kg to 1000 mg/kg |
| 14. | Vegetables and Vegetable products | Zinc | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 10 mg/kg to 1000 mg/kg |
| V. | RESIDUES IN WATER | | | |
| 1. | Drinking Water | Arsenic | APHA 23rd EDT. 3125 B: 2017 | 1 µg/L to 1000 µg/L |
| | | Cadmium | APHA 23rd EDT. 3125 B: 2017 | 1 µg/L to 1000 µg/L |
| | | Chromium | APHA 23rd EDT. 3125 B: 2017 | 1 µg/L to 1000 µg/L |
| | | Lead | APHA 23rd EDT. 3125 B: 2017 | 1 µg/L to 1000 µg/L |
| | | Mercury | APHA 23rd EDT. 3125 B: 2017 | 1 µg/L to 1000 µg/L |
| 2. | Package drinking water | Arsenic | APHA 23rd EDT. 3125 B: 2017 | 1 µg/L to 1000 µg/L |
| | | Lead (as Pb) | APHA 23rd EDT. 3125 B: 2016 | 1 µg/L to 1000 µg/L |
| | | Mercury | APHA 23rd EDT. 3125 B: 2017 | 1 µg/L to 1000 µg/L |
| | | Cadmium (as Cd) | APHA 23rd EDT. 3125 B: 2017 | 1 µg/L to 1000 µg/L |
| VI. | WATER | | | |
| 1. | Drinking water | Alkalinity (as HCO ₃) | IS 3025 (Part 23), RA 2003: 1986 | 1 mg/L to 500 mg/L |
| | | Antimony | APHA 23rd EDT. 3125 B: 2017 | 1 µg/L to 1000 µg/L |

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|-----|----------------------------|-------------------------|---|--|
| | | Barium | APHA 23rd EDT. 3125 B: 2017 | 1 µg/L to 1000 µg/L |
| | | Beryllium | APHA 23rd EDT.2017 3125B: 2017 | 1 µg/L to 1000 µg/L |
| | | Bismuth | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 1 µg/L to 1000 µg/L |
| | | Calcium | IS 3025 (part 40): 1991 | 1 mg/L to 1000 mg/L |
| | | Chloride | IS 3025 (Part 32): 1988 | 5 mg/L to 500 mg/L |
| | | Cobalt | APHA 23rd EDT. 3125 B: 2017 | 1 µg/L to 1000 µg/L |
| | | Color | IS 3025 (Part 4): 1983 | Qualitative(NA) |
| | | Copper | APHA 23rd EDT. 3125 B: 2017 | 1 µg/L to 1000 µg/L |
| | | Lithium | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 1 µg/L to 1000 µg/L |
| | | Magnesium | IS 3025 (Part 46): 1994 | 2 mg/L to 1000 mg/L |
| | | Manganese | APHA 23rd EDT. 3125 B: 2017 | 1 µg/L to 1000 µg/L |
| | | Molybdenum | APHA 23rd EDT. 3125 B: 2017 | 1 µg/L to 1000 µg/L |
| | | Nickel | APHA 23rd EDT. 3125 B: 2017 | 1 µg/L to 1000 µg/L |
| | | pH | IS 3025 (Part 11): 1983 | 2 to 14 |
| | | Residual Chlorine | IS 3025 (Part 26): 1986 | 1 mg/L to 500 mg/L |
| | | Selenium | APHA 23rd EDT. 3125 B: 2017 | 1 µg/L to 1000 µg/L |
| | | Silver | APHA 23rd EDT. 3125 B: 2017 | 1 µg/L to 1000 µg/L |
| | | Tin | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 1 µg/L to 1000 µg/L |

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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 |
|-----|----------------------------|-----------------------------------|---|--|
| | | Total dissolved solids | IS 3025 (Part 16): 1984 | 10 mg/L to 500 mg/L |
| | | Total Hardness | IS 3025 (Part 21): 2009 | 5 mg/L to 5000 mg/L |
| | | Zinc | APHA 23rd EDT. 3125 B: 2017 | 0.2 mg/L to 100 mg/L |
| 2. | Package Drinking water | Alkalinity (as HCO ₃) | IS 3025 (Part 23), RA 2003: 1986 | 1 mg/L to 500 mg/L |
| | | Antimony | APHA 23rd EDT. 3125 B: 2017 | 1 µg/L to 1000 µg/L |
| | | Barium (as Ba) | APHA 23rd EDT. 3125 B: 2017 | 1 µg/L to 1000 µg/L |
| | | Beryllium | APHA 23rd EDT. 3125 B: 2017 | 1 µg/L to 1000 µg/L |
| | | Bismuth | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 1 µg/L to 1000 µg/L |
| | | Calcium | IS 3025 (Part 40): 1991 | 2 mg/L to 1000 mg/L |
| | | Calcium (as Ca) | APHA 23rd EDT. 3125 B: 2017 | 0.1 µg/L to 1000 µg/L |
| | | Chloride | IS 3025 (part 32): 1988 | 0.5 mg/L to 500 mg/L |
| | | Chromium (as Cr) | APHA 23rd EDT. 3125 B: 2017 | 1 µg/L to 1000 µg/L |
| | | Cobalt | APHA 23rd EDT. 3125 B: 2018 | 1 µg/L to 1000 µg/L |
| | | Color | IS 3025 (part 4): 1983 | Qualitative(NA) |
| | | Copper (as Cu) | APHA 23rd EDT. 3125 B: 2017 | 1 µg/L to 1000 µg/L |
| | | Lithium | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 1 µg/L to 1000 µg/L |
| | | Magnesium | IS 3025 (Part 46): 1994 | 2 mg/L to 1000 mg/L |
| | | Manganese (as Mn) | APHA 23rd EDT. 3125 B: 2017 | 1 µg/L to 1000 µg/L |

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|-----|----------------------------|-------------------------|---|--|
| | | Molybdenum | APHA 23rd EDT. 3125 B: 2017 | 1 µg/L to 1000 µg/L |
| | | Nickel (As Ni) | APHA 23rd EDT. 3125 B: 2017 | 1 µg/L to 1000 µg/L |
| | | Odour | IS 3025 (part 5): 1983 | Qualitative(NA) |
| | | pH | IS 3025 (part 11): 1983 | 2 to 14 |
| | | Residual Chlorine | IS 3025 (Part 26): 1986 | 1.0 mg/L to 500 mg/L |
| | | Selenium (as Se) | APHA 23rd EDT. 3125 B: 2017 | 1 µg/L to 1000 µg/L |
| | | Silver | APHA 23rd EDT. 3125 B: 2017 | 1 µg/L to 1000 µg/L |
| | | Taste | IS 3025 (part 8): 1984 | Qualitative(NA) |
| | | Tin | NBR-STP-CHE-007, Version No.: 00, Issue No.:01: 2018 | 1 µg/L to 1000 µg/L |
| | | Total Dissolved solids | IS 3025 (Part 16): 1984 | 10 mg/L to 250 mg/L |
| | | Total Hardness | IS 3025 (Part 21): 2009 | 5 mg/L to 5000 mg/L |
| | | Zinc (as Zn) | APHA 23rd EDT. 3125 B: 2017 | 200 µg/L to 1000 µg/L |

***NOTE:** The Laboratory has demonstrated competence for the stated scope for **WATER**. This however **does not fully cover** the specification requirements of **BIS for the Packaged Drinking Water as per IS:14543 and the Packaged Natural Mineral Water IS:13428.**

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