

Laboratory **Shreeji Analytical & Research Laboratories Pvt. Ltd., A-1, Balaji Tulsian Industrial Estate, Gram Kumedi, Indore, Madhya Pradesh**

Accreditation Standard **ISO/IEC 17025: 2005**

Certificate Number **TC-5707**

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Validity **26.04.2018 to 25.04.2020**

Last Amended on --

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

I.	WATER			
1.	Water, Purified Water	Microbial contamination:		
		Total aerobic viable count (Pour plate method)	Indian Pharmacopeia	1 cfu/ml
		Escherichia coli	Indian Pharmacopeia	Qualitative (Absent or Present/100ml)
		Salmonella	Indian Pharmacopeia	Qualitative (Absent or Present/100ml)
		Staphylococcus aureus	Indian Pharmacopeia	Qualitative (Absent or Present/100ml)
		Pseudomonas aeruginosa	Indian Pharmacopeia	Qualitative Absent or Present/100ml
2.	Drinking Water	Total viable count	IS 5402	1 cfu (at 30°C) in per ml.
		Yeast & Mould	IS 5403	Qualitative Absent or Present in 250 ml
		E. coli	IS 5887 (Part1)	Qualitative Absent or Present in 250 ml
		Coliform	IS 5401 (Part1)	Qualitative Absent or Present in 250 ml
		Pseudomonas aeruginosa	IS 13428 (Annex D)	Qualitative Absent or Present in 250 ml
3.	Packaged Drinking Water	Total viable count	IS 5402	1 cfu (at 20 °C to 22°C) and 1 cfu (at 37°C) in per 100 ml
		Yeast and Mould	IS 5403	Qualitative Absent or Present in 250 ml
		E.coli	IS 5887 (Part1)	Qualitative Absent or Present in 250 ml
		Coliform	IS 5401 (Part1)	Qualitative Absent or Present in 250 ml

Vinay Kumar Tyagi
Convenor

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Program Director

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		Staphylococcus aureus	IS 5887 (Part 2)	Absent or Present in 250 ml
		Pseudomonas aeruginosa	IS 13428 (Annex D)	Absent or Present in 250 ml
II.	FOOD & AGRICULTURAL PRODUCTS			
1.	Jam, Juices, Sauces & Concentrates	TPC	IS 5402	≥ 10 cfu/g
		Yeast & Mould	IS 5403	≥ 10 cfu/g
		Coliforms	IS 5401 (Part 1)	≥ 10 cfu/g
2.	Starch & Starch Products	Yeast & Mould	IS 5403	≥ 10 cfu/g
3.	Cereals & Wheat Flour	Yeast & Mould	IS 5403	≥ 10 cfu/g

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CHEMICAL TESTING

I.	FOOD AND AGRICULTURAL PRODUCTS			
1.	Bakery and Confectionary Products			
a.	Biscuit	Acid Insoluble Ash	IS 1011	0.02 % to 2.0 %
		Acidity of Extracted Fat	IS 1011	0.1 % to 2 %
		Alcoholic Acidity	IS12711	0.1 % to 2 %
		Moisture	IS 1011	1.0 % to 20.0 %
		Total ash	IS12711	0.1 % to 5.0 %
		Total fat	IS12711	0.5 % to 60 %
		Total Solid Content	IS12711	20 % to 98 %
b.	Cookies & Rusk	Acid Insoluble Ash	IS12711	0.02 % to 2.0 %
		Acidity of Extracted Fat	IS12711	0.1 % to 2 %
		Alcoholic Acidity	IS12711	0.1 % to 2 %
		Moisture	IS12711	1.0 % to 20.0 %
		Total ash	IS12711	0.1 % to 5.0 %
		Total fat	IS12711	0.5 % to 60 %
		Total Solid Content	IS12711	10 % to 98 %
c.	White Bread & Milk Bread	Acid Insoluble Ash	IS 1483	0.02 % to 2.0 %
		Total Solid Content	IS 1483	10 % to 100 %
d.	Biscuits; Cookies & Rusk; White Bread	Protein	IS 7219	5 % to 30.0 %
		Carbohydrate	IS 1656	10 % to 99 %
		Energy	IS 13285	50 kcal/g to 500 kcal/g
2.	Cereals, Pulses & by-products			
a.	Atta	Moisture	IS 1155	1.0 % to 20.0 %
		Total ash	IS 1155	0.1 % to 5.0 %
		Acid Insoluble Ash	IS 1155	0.02 % to 2.0 %
		Alcoholic Acidity	IS 1155	0.05 % to 2 %
		Gluten	IS 1155 Appendix D	5.0 % to 25 %
		Crude Fiber	IS 1155 Appendix E	1.0 % to 10 %
b.	Maida	Moisture	IS1009	1.0 % to 20.0 %
		Total ash	IS1009	0.1 % to 5.0 %

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		Acid In soluble Ash	IS1009	0.02 % to 2.0 %
		Alcoholic Acidity	IS1009	0.05 % to 2 %
		Gluten	IS 1009	5.0 % to 25 %
c.	Suji or Rawa	Moisture	IS1010	1.0 % to 20.0 %
		Total ash	IS 1010	0.1 % to 5.0 %
		Acid In soluble Ash	IS1010	0.02 % to 2.0 %
		Alcoholic Acidity	IS 1010	0.05 % to 2 %
		Gluten	IS 1010 Appendix E	5.0 % to 25 %
d.	Besan	Moisture	IS 2400	1.0 % to 20.0 %
		Total ash	IS 2400	0.1 % to 5.0 %
		Acid In soluble Ash	IS 2400	0.02 % to 2.0 %
		Alcoholic Acidity	IS 2400	0.1 % to 2 %
e.	Pearl Barley	Moisture	IS 1156	1.0 % to 20.0 %
		Total ash	IS 1156	0.1 % to 15.0 %
		Acid In soluble Ash	IS 1156	0.02 % to 2.0 %
		Alcoholic Acidity	IS 1156	0.05 % to 2 %
		Protein	IS 1156	2.0 % to 50 %
f.	Corn Flaks	Moisture	IS 1158	1.0 % to 20.0 %
		Total ash	IS 1158	0.1 % to 15.0 %
		Acid In soluble Ash	IS 1158	0.02 % to 2.0 %
		Alcoholic Acidity	IS 1158	0.05 % to 2 %
g.	Polish Rice	Moisture	IS 3163	1.0 % to 20.0 %
		Total ash	IS 3163	0.1 % to 5.0 %
		Acid In soluble Ash	IS 3163	0.02 % to 2.0 %
		Fat	IS 3163	0.02 % to 2.0 %
		Protein	IS 7874 (Part 1)	1 % to 80.0 %
h.	Papad	Moisture	IS 2639	1.0 % to 20.0 %
		Total ash	IS 2639	0.1 % to 5.0 %
		Acid In soluble Ash	IS 2639	0.02 % to 2.0 %
		Alcoholic Acidity	IS 2639	0.05 % to 2 %
		Fat	IS 2639	0.02 % to 2.0 %
i.	Ready to Eat Namkeen	Moisture	IS15271	1.0 % to 20.0 %
		Total ash	IS15271	0.1 % to 15.0 %
		Acid In soluble Ash	IS15271	0.02 % to 2.0 %

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		Fat	IS15271	2.0 % to 60.0 %
		Acid Value of Extracted Fat	IS15271	0.1 % to 5 %
		Crude fiber	IS10226 (Part 2)	1.0 % to 25 %
		Calcium	IS 1797	0.005 % to 1.0 %
j.	Wheat , Rice, Soyabean, Jowar, Maize	Foreign Matter	IS 4333 (Part I)	0.01 % to 5.0 %
		Broken matter	IS 4333 (Part I)	0.01 % to 5.0 %
		Insect infestation	IS 4333 (Part I)	0.01 % to 5.0 %
		Other insect	IS 4333 (Part I)	0.01 % to 5.0 %
		Damage grain	IS 4333 (Part-I)	0.1 % to 5.0 %
		Weevilled grain	IS 4333 (Part I)	0.1 % to 50 %
		Other edible grain	IS 4333 (Part I)	0.01 % to 50 %
k.	Atta; Maida; Suji or Rawa; Besan; Pearl Barley; Corn Flakes; Polish Rice; Papad	Protein	IS 7219	5.0 % to 30.0 %
		Carbohydrate	IS 1656	10 % to 99 %
		Energy	IS 13285	50 kcal/g to 500 kcal/g
3.	Milk & Dairy Products			
a.	Milk Powder	Ash	IS 1165	0.1 % to 5.0 %
4.	Herbs, Spices & Condiments			
a.	Black Pepper; Turmeric; Coriander; Ginger; Cumin; Fenugreek; Mustard; Garlic	Ash Insoluble in dil. HCl	IS 1797	0.05 % to 5.0 %
		Cold water Soluble extract	IS 1797	1.0 % to 60 %
			IS 1797	1.0 % to 20 %
		Moisture		
		Total ash	IS 1797	0.5 % to 25.0 %
		Water Insoluble Ash	IS 1797	0.05 % to 5.0 %
		Volatile matter	IS 1797	0.15 % to 25 %
		Non Volatile Matter	IS 1797	0.1 % to 25 %
		Crude Fiber	IS 1797	0.2 % to 2 %
		Alcohol soluble extract	IS 1797	1.0 % to 50 %
		Mass	IS 1797	0.02 g to 900 g.
		Extraneous matter	IS 1797	1.0 % to 6 %
		Salt	IS 1797	1.0 % to 25 %
		Calcium	IS 1797	0.1 % to 70 %

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b.	Turmeric Powder	Colour Value	IS 10925 Annexure B	300 % to 700 %
		Starch	IS 4706 (Part 2)	5.0 % to 80 %
		Presence of Chromate	IS 3576 Annexure A	Qualitative
5.	Oil, Seeds & By-Products			
a.	Cotton seed Oil Cake	Acid Insoluble Ash	IS 7474 (Part 1)	0.05 % to 5.0 %
		Crude Fat	IS 7474 (Part 1)	0.5 % to 40 %
		Moisture	IS3579 / IS 7474 (Part 1)	1.0 % to 20 %
		Total Ash	IS 7474 (Part 1)	1.0 % to 20 %
b.	Oil	Iodine Value	IS 548 (Part I) Clause 14.0	5 % to 200 %
		Acid Value	IS 548 (Part I) Clause 14.0	0.05 % to 5 %
		Free Fatty Acid (as Oleic acid)	IS 548 (Part I) Clause 14.0	0.05 % to 5 %
		Specific Gravity	IS 548 (Part I) Clause 14.0	0.860 to 0.999
		Saponification Value	IS 548 (Part I) Clause 14.0	50 % to 200 %
		Unsaponifiable Matter	IS 548 (Part I) Clause 14.0	0.2 % to 5.0 %
6.	Fruit & vegetables			
1.	Tomato ketchup	Acidity as Acetic acid	IS 3882	0.1 % to 10 %
II.	ANIMAL FOODS/FEED			
1.	Compounded Cattle Feed, Mineral Mixtures, Rice Bran, Soya DOC	Acid insoluble ash	IS7874 (Part I)	0.1 % to 20.0 %
		Protein	IS7874 (Part I)	1 % to 80.0 %
		Crude fat	IS7874 (Part I)	0.1 % to 5.0 %
		Moisture	IS7874 (Part I)	1.0 % to 15.0 %
		Total ash	IS7874 (Part I)	0.5 % to 90.0 %
III.	WATER			
1.	Potable Water/ Drinking Water/ Borewell Water	Acidity (as CaCO ₃)	IS 3025 Part (22)	0.005 % to 1.5 %
		Alkalinity (as CaCO ₃)	IS 3025 Part (23)	0.005 % to 1.5 %
		Calcium (as Ca)	IS 3025 Part (40)	0.005 % to 0.5 %
		Chloride (as Cl)	IS 3025 Part (32)	0.005 % to 1.0 %
		Magnesium (as Mg)	IS 3025 Part (46)	0.005 % to 0.5 %
		pH value	IS 3025 Part (11)	1 to 14

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		Specific conductance	IS 3025 Part (14)	5 μ S/cm to 5000 μ S/cm
		Total dissolved Solids	IS 3025 Part (16)	0.01 % to 3.0 %
		Total hardness (as CaCO ₃)	IS 3025 Part(21)	0.01 % to 1.5 %
		Potassium	IS 3025 Part (45)	0.001 % to 1.5 %
		Sodium	IS 3025 Part (45)	0.001 % to 1.5 %
		Color	IS 3025 (Part 4) Platinum Cobalt method	(1 to 500) hazen
		Turbidity	IS 3025 (Part 10)	1 NTU to 100 NTU
		Iron	IS 3025 (Part 53) 1-10 Phenanthaline method	0.001 % to 1.5 %
		Residual chlorine	IS 3025 (RA 2014) Iodometric method	0.01 % to 1 %
		Sulphate	IS 3025 (Part 24) (Turbidity method)	0.001 % to 0.06 %
IV.	DRUG & PHARMACEUTICAL PRODUCTS			
1.	Raw Materials			
a.	Thiamine Hydrochloride, Niacinamide, Caffeine, Folic Acid, Sodium Chloride, Potassium Chloride	Identification by Chemical	Indian Pharmacopeia	Qualitative
		Identification by Infra Red	Indian Pharmacopeia	Qualitative
		Acidity / Alkalinity	Indian Pharmacopeia	Qualitative
		Density / Specific Gravity	Indian Pharmacopeia	Qualitative
		Limit test for Chloride	Indian Pharmacopeia	Qualitative
		Limit test for Iron	Indian Pharmacopeia	Qualitative
		Limit test for Sulphate	Indian Pharmacopeia	Qualitative
		Loss on Drying	Indian Pharmacopeia	0.5 % to 30 %
		Sulphated Ash	Indian Pharmacopeia	0.05 % to 10%

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2.	Pharmaceutical Finish Products			
a.	Syrup, Oral Suspension	pH	Indian Pharmacopeia British Pharmacopeia United states Pharmacopeia	1.0 to 14.0
		Acidity/Alkalinity	Indian Pharmacopeia United states Pharmacopeia	Qualitative
		Specific gravity	Indian Pharmacopeia	0.9960 to 1.36
3.	Powder			
a.	Oral Rehydration Powder	Sodium	Indian Pharmacopeia	1.0 % to 110 % of claim (1.7029g)
		Potassium	Indian Pharmacopeia	1.0 % to 110 % of claim (0.7868g)
		Chloride	Indian Pharmacopeia	1.0 % to 110 % of claim (2.2906g)
		Citrate	Indian Pharmacopeia	1.0 % to 110 % of claim (1.8647g)
4.	Tablets			
a.	Ferrous sulphate	Identification (A & B)	Indian Pharmacopeia	Qualitative
		Assay	Indian Pharmacopeia	80 % to 110 %
		DT	Indian Pharmacopeia	1 Minutes to 60 Minutes
b.	Ibuprofen	Identification (A)	Indian Pharmacopeia	Qualitative
		Assay	Indian Pharmacopeia	80 % to 110 %
c.	Metformin	Identification (A)	Indian Pharmacopeia	Qualitative
		Assay	Indian Pharmacopeia	80 % to 110 %
d.	Paracetamol	Identification (A)	Indian Pharmacopeia	Qualitative
		Assay	Indian Pharmacopeia	80 % to 110 %
5.	Capsules			
a.	Amoxicillin trihydrate Capsules	Identification (B)	Indian Pharmacopeia	Qualitative
		Assay	Indian Pharmacopeia	80 % to 120 %