

Laboratory

Green Lab Analysis & Research Centre Pvt. Ltd. (GLARC), A74,
Naraina Industrial Area Phase 1, New Delhi

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number

TC-8037

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Validity

26.10.2018 to 25.10.2020

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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
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BIOLOGICAL TESTING

I. FOOD AND AGRICULTURAL PRODUCTS				
1.	Fruit & Fruit Products	Total Plate Count	IS 5402	≥ 1 CFU/ml ≥ 10 CFU/g
		Coliform Counts	IS 5401 (Part 1) IS 5401 (Part 2)	0.30 MPN/g to 110 MPN/g ≥ 1 CFU/ml ≥ 10 CFU/g
		Yeast & Mould Count	IS 5403	≥ 1 CFU/ml ≥ 10 CFU/g
2.	Vegetable and Vegetable Products (jam, jellies, Marmalades, juice)	Total Plate Count	IS 5402	≥ 1 CFU/ml ≥ 10 CFU/g
		Coliform Counts	IS 5401 (Part 1) IS 5401 (Part 2)	0.30 MPN/g to 110 MPN/g ≥ 1 CFU/ml ≥ 10 CFU/g
		Yeast & Mould Count	IS 5403	≥ 1 CFU/ml ≥ 10 CFU/g
3.	Nutritional Packaged food products (Juice biscuits, kurkure sandwiches Namkeen)	Total Plate Count	IS 5402	≥ 1 CFU/ml ≥ 10 CFU/g
		Coliform Counts	IS 5401 (Part 1) IS 5401 (Part 2)	0.30 MPN/g to 110 MPN/g ≥ 1 CFU/ml ≥ 10 CFU/g
		Yeast & Mould Count	IS 5403	≥ 1 CFU/ml ≥ 10 CFU/g
		Escherichia .Coli	IS 5887 (Part 1)	Qualitative (Absent/present)
4.	Spices & Condiments, Whole & Grounded	Total Plate Count	IS 5402	≥ 1 CFU/ml ≥ 10 CFU/g
		Coliform Counts	IS 5401 (Part 1) IS 5401 (Part 2)	≥ 10 CFU/g

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		Yeast & Mould Count	IS 5403	≥ 10 CFU/g
		Escherichia .Coli	IS 5887(Part 1)	Qualitative (Absent/present)/g
		Salmonella	IS 5887(Part 3)	Qualitative (Absent/present)/g
5.	Edible Maize Starch Custard Powder	Total Plate Count	IS 5402	≥ 10 CFU/g
		Coliform Counts	IS 5401 (Part 1) IS 5401 (Part 2)	≥ 10 CFU/g
		Yeast & Mould Count	IS 5403	≥ 10 CFU/g
6.	Milk & Milk Products As Milk powder Cheese Condensed milk, Dairy whitener, SMP,WMP,Paneer	Total Plate Count	IS 5402	≥ 1 CFU/ml ≥ 10 CFU/g
		Coliform Counts	IS 5401 (Part 1) IS 5401 (Part 2)	1.0 MPN/g to 110 MPN/g ≥ 1 CFU/ml ≥ 10 CFU/g
		Yeast & Mould Count	IS 5403	≥ 1 CFU/ml ≥ 10 CFU/g
		Escherichia coli	IS 5887 (Part 1)	Qualitative (Absent/present)/ 1 ml or g
		Salmonella Spc.	IS 5887(Part 3)/ IS 15187	Qualitative (Absent/present)/ 25 g or ml
7.	Nuts and Nut products	Total Plate Count	IS 5402	≥ 10 CFU/g
		Coliform Counts	IS 5401 (Part 1) IS 5401 (Part 2)	0.30 MPN/g to 110 MPN/g ≥ 10 CFU/g
		Yeast & Mould Count	IS 5403	≥ 10 CFU/g
8.	Snacks & Instant Mixes	Total Plate Count	IS 5402	≥ 1 CFU/ml ≥ 10 CFU/g
		Coliform Counts	IS 5401 (Part 1) IS 5401 (Part 2)	≥ 10 CFU/g
		Yeast & Mould Count	IS 5403	≥ 10 CFU/g

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II.	ANIMAL FOOD & FEED			
1.	Animal Feed (Poultry feed, cattle feed, compound feed)	Total Plate Count	IS 5402	≥ 10 CFU/g
Coliform Counts		IS 5401 (Part 1) IS 5401 (Part 2)	≥ 10 CFU/g	
Yeast &Mould Count		IS 5403	≥ 10 CFU/g	
II.	WATER			
1.	Packaged Drinking Water	Total Plate Count At 370C	IS 5402	≥ 1 CFU/ml
Total Plate Count At 220C		IS 5402	≥ 1 CFU/ml	
Yeast &Mould		IS 5403	≥ 1 CFU/ml	
Escherichia Coli		IS 5887 (Part 1) IS 15185	Qualitative (Absent/present)/250ml	
Coliform count		IS 5401 (Part 1) IS 15185	Quantitative	
2.	Drinking water	Total Plate Count At 370C	IS 5402	≥ 1 CFU/ml
Total Plate Count At 220C		IS 5402	≥ 1 CFU/ml	
Yeast &Mould		IS 5403	Quantitative	
Escherichia Coli		IS 5887 (Part 1) IS 15185	Qualitative (Absent/present)/250ml	
Coliform count		IS 5401 (Part 1) IS 15185	≥ 1 CFU/ml	

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CHEMICAL TESTING

I.	FOOD & AGRICULTURAL PRODUCTS			
1.	OTHERS Nutritional Analysis Packaged food products (Juices, biscuits, fruits and vegetable products, sandwiches, Namkeen)	Fat	IS 4684 IS 11721 IS 4079	0.02 % to 50 %
		Protein	IS 7219	0.05 % to 70 %
		sucrose	IS 4941	1 % to 60 %
		Carbohydrates	IS 1656	0.5 gm/100gm to 90 gm/100gm
		Energy Value	IS 9487	4 Kcal/100g to 900 Kcal/100g
		Crude fiber	IS 10226 (Part 1)	0.02 % to 40 %
		Vitamin C	IS 5838	2.5 mg/100 gm to 500 mg/100 gm
2.	Bakery & confectionery products (Sugar boiled candy, Bubble gum, Biscuit, Bread , Ruusk, Cookies)	Moisture	IS 12711 IS 2650 IS 6287	0.5 % to 10 %
		Ash Sulphated	IS 4079 IS 6287	0.5 % to 2.0 %
		Protein(NX6.25)	IS 4079 IS 6287	0.5 % to 30.0 %
		Carbohydrate	IS 1656 FSSAI Lab Manual 4	0.1 % to 99 %
		Acid Insoluble Ash	IS 6287 IS 1004 FSSAI Lab Manual 4	0.1 % to 1 %
		Energy	IS 9487	4 Kcal/100 gm to 900 Kcal/100 gm
		Total sugars	IS 4079 IS 6287 IS 2650	1 % to 99 %

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		Reducing sugars	IS 4079 IS 6287	1 % to 80 %
		Vitamin C	IS 58388	2 mg/100gm to 600 mg/100gm
3.	Cereals, pulses & cereal products (Grains, Rice, Wheat, Maize, Moong Dal, Gram wheat Flour, Maida, Soya Flour, Corn Flour, Besan, mix, Sattu, Suji, Dalia, Cereal Based)	Acid Insoluble Matter	IS 10502	0.02 % to 10 %
		Loss on drying	IS 1485	0.05 % to 10 %
		Total ash	IS 1485	0.02 % to 10 %
		Acid insoluble ash	IS 1485	0.01 % to 0.5 %
		Protein (Nitrogen)	IS 1485	0.2 % to 30 %
		Free acidity	IS 1485	1.0 ml/100g to 4.0 ml/100g
		Other edible grains	IS 4333 (Part 1) IS 2813	0.05 % to 2 %
		Damaged grains	IS 4333 (Part 1) IS 2813	0.05 % to 20 %
		Weevilled grains	IS 4333 (Part 1) IS 2813	0.05 % to 20 %
		Foreign matter	IS 4333 (Part 1) IS 2813	0.05 % to 2 %
4.	Edible oils & fats (All edible and Non edible fats, (Oil blends, mustard oil, soya bean oil, olive oil, til oil, rice bran oil and Coconut oil, Palm oil, Palm olein, Palm stearin, Palm super other edible oil, Palm kernel oil, Palm kernel stearin, Maize oil)	Moisture	IS 548(Part 1)	0.01 % to 10 %
		Iodine value	IS 548 (Part 1)	6.5 % to 190 %
		Peroxide value	IS 548 (Part 1)	1 meq/1000gm to 10 meq/1000gm
		Specific gravity	IS 548 (Part 1)	0.8 to 1.1
		FFA as (Oleic acid)	IS 548 (Part 1)	0.05 % to 2.0 %
		Saponification value	IS 548 (Part 1)	160 to 250
		Acid value of Extracted Fat	IS 548 (Part 1)	0.1 % to 5.0 %

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5.	Food additives & preservatives (Iodized salt)	Moisture	IS 7224	0.20 % to 5.0 %
		Chloride as NaCl	IS 7224	90 % to 99 %
		Iodine Content	IS 7224	5 mg/kg to 50 mg/kg
6.	Fruit & fruit products (Ketchup, Jam, Jellies & Marmalades, Chutneys, Pickle, Canned Fruits, Raw & Processed Fruits And Vegetables,)	Ash	IS 3500	0.02 % to 10 %
		Protein	IS 7219	0.1 % to 30 %
		Salt	IS 2860	0.1 % to 5 %
		Soluble solids	IS 3882	1 % to 50 %
		Sugar	IS 3547	1 % to 70 %
		Vitamin C	IS 5838	2 mg/100 g to 600 mg/100 g
		Acid insoluble ash	IS 3500	0.02 % to 5 %
		pH Value	IS 2860	1 to 10
		Acidity	IS 2860	0.05 % to 5 %
		7.	Herbs, spices & condiments (Whole & Grounded)	Moisture
Total Ash (Dry Basis)	IS 1797			0.5 % to 10.0 %
Acid Insoluble Ash (Dry Basis)	IS 1797			0.1 % to 2.0 %
Water Insoluble ash (Dry Basis)	IS 1797			0.1 % to 5.0 %
Cold water soluble extract (Dry Basis)	IS 1797			1.0 % to 35.0 %
Volatile Oil (Dry Basis)	IS 1797			0.4 ml/100 gm to 5.0 ml/100 gm
Energy Value	IS 9487			4 Kcal/100 g to 900 Kcal/100 g
8.	Honey & honey products	Acidity as Formic Acid	IS 4941: Annexure E	0.1 % to 2.0 %
		Total Reducing Sugars	IS 4941: Annexure C	40.0 % to 80.0 %
		Moisture	IS 4941	13 % to 25 %
		Optical Density, at 660 nm	IS 4941	0.001 to 0.800
		Specific Gravity	IS 4941	1.21 to 1.50
		Sucrose	IS 4941	0.40 % to 10 %
		F/G ratio	IS 4941	0.80 to 1.8
		Ash	IS 4941	0.002 % to 5 %

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9.	Oil seeds & by-products (Oil Seeds & Related Products, Raw & processed oil cakes, De-oiled cakes)	Colour	IS 4941	Red to Brown
		Moisture Content	IS 3579	0.02 % to 20 %
		Impurities	IS 3579	0.1 % to 20 %
		Oil Content	IS 3579	0.1 % to 60 %
		Acid value for extracted fat	IS 548 (Part 1)	0.05 % to 20 %
		Damaged and weevilled kernels	IS 3579 IS 2323	0.1 % to 20 %
		Slightly damaged kernels	IS 3579 IS 2323	0.1 % to 20 %
10.	Starch & Starch Products (Custar Powder, Corn Flakes)	Shrivelled and immature kernels	IS 3579 IS 2323	0.02 % to 20 %
		Other Food grain	IS 3579 IS 2323	0.02 % to 10 %
		Moisture	IS 4706 (Part 2)	5.0 % to 14.0 %
		Total Ash	IS 4706 (Part 2)	0.02 % to 10 %
		Acid Insoluble Ash	IS 1005 IS 4706 (Part 2)	0.02 % to 0.5 %
11.	Starch & Starch Products (Edible Maize Starch)	Crude Fiber	IS 1158	0.25 % to 10 %
		Alcoholic Acidity	IS 1158	0.02 % to 0.5 %
		Moisture	IS 1005 IS 4706 (Part 2)	0.02 % to 12.5 %
		Total Ash	IS 1005 IS 4706 (Part 2)	0.10 % to 5.0 %
		Acid Insoluble Ash	IS 1005 IS 4706 (Part 2)	0.02 % to 1 %
		Starch	IS 1005 IS 4706 (Part 2)	10.0 % to 99 %
		Protein	IS 1005 IS 4706 (Part 2)	0.2 % to 30.0 %
		pH of Aqueous solution	IS 1005 IS 4706 (Part 2)	01 to 12
		Alcoholic Acidity	IS 1005 IS 4706 (Part 2)	0.02 % to 0.1 %

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12.	Milk & dairy products (Milk Powder, Cheese, Condensed Milk, Dairy Whitener, SMP, WMP, Paneer, Casein, Lactose powder, WPC, Khoa, Ghee)	Solids Not Fat (SNF)	IS 1479(Part 2)	By calculation
		Total solids	IS 1479 (Part 2) IS 4883	0.5 % to 80 %
		Fat	IS 11721 IS 1479 (Part 2) IS.4883	0.5 % to 30 %
		Moisture	IS 3508 IS 3507 IS 4883	0.05 % to 20 %
		Acidity	IS 3507 IS 4883 IS 11766 IS 1165	0.1 % to 10 %
		Salt	IS 3507	0.05 % to 5.0 %
		Ash	IS 14433 (Part I) IS 1165 FSSAI Lab Manual 1	0.01 % to 10 %
		Protein	IS 7219	0.5 % to 90 %
		Peroxide value of extracted fat	IS 3508	0.2 to 100 meq/kg
		Free Fatty Acid	IS 3508	0.05 % to 10 %
13.	Sugar & sugar products (Sugar & its by products)	Sucrose	IS 4079	0.5 % to 50 %
		Carbohydrate	IS 1656	By calculation
		Moisture	IS 15279	0.05 % to 10.0 %
		Sucrose	IS 15279	90.0 % to 100.0 %
		Total Ash	IS 15279	0.02 % to 5.0 %
		Colour Value	IS 15279	50 to 1000 (ICUMSA)
		Sulphated Ash	IS 15279	0.02 % to 10 %
14.	Nuts & nut products	Water insoluble matter	IS 15279	0.02 % to 10 %
		Moisture	IS 4684	0.02 % to 30 %
		Total ash	IS 4684	0.02 % to 20 %
		Fat	IS 4684	0.05 % to 70 %
		Protein	IS 4684	0.1 % to 80 %
		Acid Insoluble ash	IS 4684	0.02 % to 10 %

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		Acid value of extracted Fat	IS 4684	0.01 % to 20 %
		Carbohydrate	IS 1656	1 % to 99 %
		Energy Value	IS 9487	4 Kcal/100g to 900 Kcal/100g
		Salt	IS 253	0.1 % to 10 %
		Crude fiber	IS 4684	0.1 % to 30 %
		Peroxide Value	IS.548:(Part 1)	0.5 meq/kg to 200 meq/kg
II.	ANIMAL FOOD & FEEDS			
1.	Poultry Feed, Cattle Feed, Compound Feed	Moisture	IS 7874 (Part I)	Upto 20 %
		Crude Protein	IS 7874 (Part I)	2 % to 49 %
		Crude fat	IS 7874 (Part I)	0.1 % to 20 %
		Crude fiber	IS 7874 (Part I)	0.2 % to 25 %
		Total Ash	IS 7874 (Part I) IS 10502	0.05 % to 10 %
		Salt as NaCl	IS 7874 (Part 2)	0.1 % to 10 %
III.	WATER			
1.	Drinking Water, Water	colour	IS 3025(Part 4)	1 Hazen to 50 Hazen
		Odour	IS 3025(Part 5)	Qualitative(Agreeable/Disagreeable)
		Taste	IS 3025(Part 8)	Qualitative(Agreeable/Disagreeable)
		Turbidity	IS 3025(Part 10)	1 NTU to 2000 NTU
		Total dissolve solids	IS 3025(Part 16)	1.0 mg/l to 3000 mg/l
		Total soluble solids	IS 3025(Part 17)	1.0 mg/l to 2000 mg/l
		Total Solids	IS 3025(Part 15)	1 mg/l to 10000 mg/l
		pH	IS 3025(Part11)	3 to 12
		Total Hardness as (CaCO3)	IS 3025(Part 21)	1 mg/l to 5000 mg/l

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		Total Alkalinity	IS 3025(Part 23)	1 mg/l to 5000 mg/l
		Acidity (as CaCO ₃)	IS 3025(Part 22)	1 mg/l to 500 mg/l
		Chloride	IS 3025(Part 32)	1 mg/l to 2500 mg/l

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MECHANICAL TESTING

I.	TOYS AND SIMILAR PRODUCTS			
1.	Toys and similar products	Sharp point test	IS 9873(Part 1): Clause 5.9	Qualitative
		Sharp edge test	IS 9873(Part 1): Clause 5.8	Qualitative
		Torque test	IS 9873(Part 1): Clause 5.24.5	Qualitative
		Compression test	IS 9873(Part 1): Clause 5.24.7	Qualitative
		Flexure test	IS 9873(Part 1): Clause 5.24.8	Qualitative
		Drop test	IS 9873(Part 1): Clause 5.24.2 & 5.24.3	Qualitative
		Impact test	IS 9873(Part 1): Clause 5.14	Qualitative
		Thickness	IS 9873(Part 1): Clause 5.10	0.01mm to 10.0mm Qualitative
		Flammability test	IS 9873 (Part 2)	Qualitative

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