

Laboratory **Nutriscience Research Laboratory Pvt. Ltd., 472/5, 3rd Floor, Junction Main Road, Annapuram, Salem, Tamil Nadu**

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

Certificate Number **TC-8038**

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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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CHEMICAL TESTING

I. FOOD & AGRICULTURAL PRODCUTS				
1.	Tea (Black Tea, green tea, Decaffeinated tea & flavoured tea)	Total Ash	IS 13854	3.0 % to 10.0 %
		Water Soluble Ash	IS 13855	30 % to 70 %
		Acid Insoluble Ash	IS 13857	0.05 % to 5.0 %
		Alkalinity of Water Soluble Ash as KOH	IS 13856	0.2 % to 5.0 %
		Water Extract	IS 13862	20.0 % to 60.0 %
		Crude fibre	IS 16041	2.0 % to 40.0 %
		Loss in mass at 103°C	IS 13853	2.0 % to 10.0 %
2.	Coffee (Roasted and Ground, Soluble Coffee, Roasted Coffee-Chicory & Soluble Coffee-Chicory)	Moisture	IS 3077/ IS 2791	1.0 % to 20.0%
		Total Ash	IS 3077/ IS 2791	1.0 % to 15.0 %
		Water Soluble Ash	IS 3077	30 % to 85.0 %
		Alkalinity of Water Soluble Ash	IS 3077	1.0 ml to 10.0 ml
		Acid Insoluble Ash	IS 3077	0.04 % to 5.0 %
		Water Soluble Matter	IS 3077	5.0 % to 50.0 %
		Petroleum Ether Extract	IS 3077	5.0 % to 15.0 %
		Caffeine	IS 3077/ IS 2791	0.10 % to 5.0 %
		Solubility In Boiling Water	IS 2791	Qualitative
		Solubility In Cold Water At 16 ± 2°C	IS 2791	Qualitative
3.	Starch and Starch products: Sago & Corn	Moisture	IS 4706 (Part II)	0.5 % to 15 %
		Total Ash	IS 4706 (Part II)	0.05 % to 2.5 %
		pH	IS 4706 (Part II)	4 to 8
		Protein	IS 4706 (Part II)	0.1 % to 5.0 %
		Crude Fat	IS 7874 (Part I)	0.05 % to 0.50 %

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		Carbohydrates	IS 1656	10 % to 99 %
		Energy	FAO Food & Nutrition Paper 77, 2002	(10 kcal to 500 kcal)/ 100g
		Starch	IS 4706 (Part II)	0.1 % to 100 %
		Acid insoluble ash	IS 4706 (Part II)	0.02 % to 5.0 %
		Crude Fiber	IS 4706 (Part II)	0.01 % to 10.0 %
		Alcoholic acidity	IS 4706 (Part II)	0.05 % to 10.0 %
		Hydrocyanic acid	AOAC (20 th Edition) 915.03	1.0 mg/kg to 500 mg/kg
4.	Herbs & Spices/ Condiments (Whole & Ground) Chilli, Chilli Powder, Turmeric, Turmeric Powder, Curry Powder, Cardamom, Masala Powder, Celery Seeds, Cloves, Mustard, Coriander, Cumin seeds, Fennel Seed, Fenugreek, Nutmeg, Pepper (Black & White), Saffron, Cinnamon, Cassia, Ginger Powder	Total Ash	IS 1797	0.05 % to 25.0 %
		Acid Insoluble Ash	IS 1797	0.01 % to 20.0 %
		Moisture	IS 1797	0.5 % to 20.0 %
		Alcohol Soluble Extract	IS 1797	0.01 % to 60.0 %
		Cold Water Soluble Extract	IS 1797	0.01 % to 60.0 %
		Crude Fibre	IS 1797	0.50 % to 30.0 %
		Nonvolatile Ether Extract	IS 1797	0.50 % to 30.0 %
		Volatile Oil	IS 1797	0.1 % to 25.0 %
		Extraneous Matter	IS 1797	0.01 % to 5.0 %
		Curcumin	IS 10925	0.5 % to 10 %
5.	Food Grains: Cereals, Millets & Pulses	Moisture	IS 1155 IS 1009 IS 1010	0.5 % to 20.0 %

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	(Whole & Ground) Wheat, Wheat Atta, Protein rich Atta, Maida, Protein rich Maida, Suji (Rawar), Ragi & Ragi products, Rice (basmati rice), Besan, Barley, Maize, Jowar, Bajra, Masur, Urid, Moong, Lentils, Corn, Channa, Bengal gram, Split Pulses)	Total Ash	IS 1155, IS 1009 IS 1010	0.05 % to 10.0 %
		Acid Insoluble Ash	IS 1155, IS 1009 IS 1010	0.01 % to 10.0 %
		Crude Fibre	IS 1155	0.5 % to 20.0 %
		Alcoholic Acidity	IS 1155; IS 1009; IS 1010	0.01 % to 1.0 %
		Total Fat	IS 6287	0.1 % to 30.0 %
		Protein	IS 6287	0.5 % to 30.0 %
		Carbohydrate	IS 6287; IS 1656	1.0 % to 90.0 %
		Energy	FAO Food & Nutrition Paper 77, 2002	50.0 kcal/100g to 800.0 kcal/100g
6.	Milk & Dairy Products: Milk Powder, Condensed Milk, Paneer, Cheese, Yogurt, Ice Cream, Edible Casein Products, Dairy Whitener, Butter, Whey Powder, Ghee, Curd, Butter Oil, Khoa, Milk Permeates, Milk Concentrates & Cream	Moisture	IS11623	0.1 % to 90 %
		Titrateable Acidity (as Lactic Acid)	IS 1165	0.01 % to 10 %
		Fat	IS 11721	0.5 % to 99 %
		Protein	IS 7219 & IS 1479 (Part II)	0.5 % to 90 %
		Ash	IS 14433; IS 1165	0.001 % to 10 %
		Total solids	IS 12333	1 % to 98 %
7.	Oils and Fats:	Moisture	IS 548 (Part I)	0.01 % to 2.0 %
		Insoluble Impurities		0.05 % to 2.0 %

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	Groundnut, Sesame, Coconut, Castor oil, Corn,	Acid Value		0.2 % to 10.0 %
		Saponification Value		50 to 400
	Rice bran, Sunflower, Mustard oil, Soya bean Oil, Ghee, Fish oil	Unsaponifiable Matter		0.2 % to 20.0 %
		Iodine value		5 to 200
		Test for Mineral oil	IS 548 (Part II)	Qualitative
		Test for Groundnut oil		Qualitative
		Test for Sesame oil		Qualitative
		Specific Gravity	IS 548 (Part I)	0.4 to 0.9999
		Free Fatty Acid		0.1 % to 10.0 %
		Peroxide value (meq peroxide per 1000g)		1 to 20
8.	Nut & Nut Products: Peanut and peanut products, pistachios, almonds, walnuts, coconut & coconut products	Moisture	IS 966/ IS 3579	0.1 % to 20.0 %
		Total Ash	IS 966	0.1 % to 5.0 %
		Crude Fat	IS 6287	0.1 % to 50.0 %
		Protein	IS 7219	0.5 % to 50.0 %
		Crude fiber	IS 966	0.1 % to 15.0 %
		Carbohydrates	IS 1656	10 % to 90.0 %
		Energy	FAO Food & Nutrition Paper 77, 2002	(10 kcal to 800 kcal)/ 100g
9	Oil seeds & by-products: Neem Oil, Neem Extract Powder,, Neem Kernel & Neem Formulations, Karanja Oil	Azadirachtin (A&B)	NSRL/SOP/TM-67 Issue No:1.0 Issue Date:07.02.2018	0.005% to 50.0%
		Iodine Value	IS 548 (Part I)	50.0 to 80.0
		Saponification Value		150 to 250
		Refractive Index		1.44 to 1.48
		Specific gravity		0.80 to 0.96
		Moisture		0.03 % to 2.0 %

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		Karanjin	NSRL/SOP/TM-68 Issue No:1.0 Issue Date:07.02.2018	0.005 % to 50.0 %
II.	ANIMAL FOOD & FEEDS			
1.	Animal Feeds: Oil Cakes, Poultry Feed, Shrimp Feed & Fish Feed	Moisture	IS 7874 (Part I)	0.1 % to 20.0 %
		Total Ash		0.3 % to 20.0 %
		Acid insoluble ash		0.1 % to 5.0 %
		Crude Fat		0.5 % to 15.0 %
		Crude Fiber		0.5 % to 20.0 %
		Crude Protein		0.1 % to 90.0 %
		Carbohydrates	IS 1656	(5 g to 90 g)/100 g
III.	ORES AND MINERALS			
1.	Magnesite	Loss on Ignition	IS 1760 (Part 1)	30 % to 60 %
		Silica as SiO ₂	IS 1760 (Part 2)	0.5 % to 20 %
		Iron as Fe ₂ O ₃	IS 1760 (Part 3)	0.01 % to 5 %
		Alumina as Al ₂ O ₃		0.05 % to 10 %
		Calcium as CaO		0.1 % to 10 %
		Magnesium as MgO		0.1 % to 60 %
2.	Limestone, Calcite & Dolomite	Loss on Ignition	IS 1760 (Part 1)	30 % to 50 %
		Silica as SiO ₂	IS 1760 (Part 2)	0.1 % to 20 %
		Iron as Fe ₂ O ₃	IS 1760 (Part 3)	0.01 % to 5 %
		Alumina as Al ₂ O ₃		0.05 % to 10 %
		Calcium as CaO		0.1 % to 70 %
		Magnesium as MgO		0.1 % to 30 %
IV.	POLLUTION & ENVIRONMENT			

Amit Kumar
Convenor

Anuja Anand
Program Manager

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1.	Soil	Water Content	IS 2720 (Part 2)	0.05 % to 25 %
		Organic Matter	NSRL/SOP/TM/60 Issue No:1.0 Issue Date:07.02.2018	0.05 % to 20 %
		pH	IS 2720 (Part 26)	4 to10
		Specific Electrical Conductivity	IS 14767	1 μ S/cm to 5000 μ S/cm
		Available Phosphorous as P	NSRL/SOP/TM/61 Issue No:1.0 Issue Date:07.02.2018	1 μ g/g to 500 μ g/g
		Soluble Potassium as K	NSRL/SOP/TM/62 Issue No:1.0 Issue Date:07.02.2018	(1 mg to 500 mg)/100g
		Soluble Calcium and Magnesium	NSRL/SOP/TM/63 Issue No:1.0 Issue Date:07.02.2018	(0.2 mg to 500 mg)/100g
		Sulphate as SO ₄	NSRL/SOP/TM/64 Issue No:1.0 Issue Date:07.02.2018	(1 mg to 500 mg)/100g
		Soluble Sodium as Na	NSRL/SOP/TM/65 Issue No:1.0 Issue Date:07.02.2018	(0.2 mg to 500 mg)/100g
		Total Kjeldhal Nitrogen as N	NSRL/SOP/TM/66 Issue No:1.0 Issue Date:07.02.2018	0.01 % to 20 %
V.	WATER			
1.	Packaged Drinking Water & Drinking Water	Taste	IS 3025 (Part 7)	Qualitative
		Odor	IS 3025 (Part 5)	Qualitative
		Turbidity	IS 3025 (Part 10)	0.1 NTU to 100 NTU
		pH	IS 3025 (Part 11)	1 to 14

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		Total Dissolved Solids (TDS)	IS 3025 (Part 16)	1 mg/l to 500 mg/l
		Chloride as Cl ⁻	IS 3025 (Part 32)	1 mg/l to 5000 mg/l
		Sulphate as SO ₄	IS 3025 (Part 24)	1 mg/l to 5000 mg/l
		Total Alkalinity as CaCO ₃	IS 3025 (Part 23)	1 mg/l to 5000 mg/l
		Total Hardness as CaCO ₃	IS 3025 (Part 21)	1 mg/l to 500 mg/l
		Nitrate as NO ₃	IS 3025 (Part 34)	1 mg/l to 100 mg/l
		Calcium as Ca	IS 3025 (Part 40)	0.4 mg/l to 2000 mg/l
		Magnesium as Mg	IS 3025 (Part 46)	0.4 mg/l to 1000 mg/l
		Electrical Conductivity (EC)	IS 3025 (Part 14)	0.1 µS/cm to 90,000 µS/cm
VI.	FERTILIZERS			
1.	Manganese sulphate	Mn	FCO,1985	12.5 % to 62.5 %
2.	Magnesium sulphate	Mg	IS 2730/FCO, 1985	5 % to 100 %
3.	Boric acid	Boric acid	IS 10116	2 % to 100 %
4.	Copper sulphate	Cu	IS 261	1.5 % to 26 %
5.	Ammonium Sulphate	N	IS 6092 (Part 2)	1.0 % to 22 %
6.	Zinc sulphate	Zn	IS 8249	1 % to 40 %
		pH	IS 8249	1.0 to 11.0
VII.	COSMETICS & ESSENTIAL OILS			
1.	Soap Detergents and Toiletries:	Moisture and Volatile Matter	IS 286	1 % to 50 %
	Soap	Matter insoluble in alcohol	IS 286	0.5 % to 20 %

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		Matter insoluble in water	IS 286	0.02 % to 50 %
		Total Fatty matter	IS 286	1 % to 90 %

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