

Laboratory **ATLAS LAB, 515/516, B Wing, 5th Floor, Mahesh Commercial Complex, Sector 15, CBD Belapur, Navi Mumbai, Maharashtra**

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

Certificate Number **TC-6087**

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Validity **03.08.2018 to 02.08.2020**

Last Amended on **16.08.2018**

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 PRODUCTS			
1.	Bakery Products	Moisture	IS 1011	0.1 g/100 g to 15 g/100 g
		Acid Insoluble Ash	IS 1011	0.1 g/100 g to 5 g/100 g
		Fat	IS 12711	0.5 g/100 g to 20 g/100g
		Acidity of Extracted Fat	IS 1011	0.1 g/100 g to 10 g/100 g
2.	Foodgrains (Wheat, Maize, Jowar, Bajra, Rice, Masur Whole, Masur Dal, Urd Whole, Urd Dal, Moong Whole, Moong Dal, Chana Whole, Chana Dal, Dal Arhar)	Moisture	IS 4333 (Part II)	3 g/100 g to 25 g/100 g
		Broken Grains	IS 2813	Qualitative
		Damaged/Slightly Damaged Grains		
		Discoloured Grains		
		Weevilled Grains		
		Other Edible Grains		
		Shrivelled/ Immature Grains		
			Extraneous Matter/ Admixture/ Foreign matter	IS 4333(Part I)
3.	Vanaspati	Moisture	IS 548 (Part I)	0.1 g/100 g to 20 g/100 g
		Acid Value	IS 548 (Part I)	0 to 1.0 g/100 g
		Unsaponifiable Matter	IS 548 (Part I)	0.1 g/100 g to 35 g/100 g
		Melting Point, Deg. C	IS 10633 (Annex.BA)	25 °C to 45 °C
		Refractive Index @ 40°C	IS 548 (Part I)	1.4220 to 1.4800
		Baudouin Test Colour in 1Cm Cell	IS 10633	Qualitative
		F.F.A	IS 548 (Part I)	0 to 0.5 g/100 g
4.	Spices & Condiments (Caraway, Cardamom, Chillies and Capsicum,	Moisture	IS 1797	1 g/100 g to 25 g/100g
		Ash	IS 1797	1 to 25 g/100g
		Volatile Oil	IS 1797	1.0 to 10 g/100g
		Presence of Chromate	IS 3576	Qualitative (Positive/Negative)

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	Cinnamon, Cassia, Cloves, Coriander, Cumin, Fennel, Fenugreek, Ginger, Mace, Mustard, Nutmeg, Pepper Black, Poppy, Turmeric, Curry Powder, Aniseed, Dried Mango Slices, Dried Mango Powder, Pepper White, Garlic, Celery, Dehydrated Onion, Asafoetida, Mixed Masala)	Starch	IS 4706 (Part II)	1 to 80 g/100g
		Acid Insoluble Ash	IS 1797	0.1 g/100g to 20 g/100g
		Non Volatile Ether Extract	IS 1797	1.0 g/100g to 40 g/100g
		Crude Fibre	IS 1797	1 g/100g to 40 g/100g
		Extraneous Matter	IS 1797	0.1 g/100g to 50 g/100g
5.	Oils And Fats (Coconut Oil, Cottonseed Oil, Groundnut Oil, Linseed Oil, Mahua Oil, Mustard/ Rapeseed Oil, Olive Oil, Poppy Seed Oil, Safflower Seed Oil, Taramira Oil, Til/ Sesame Oil, Niger Seed Oil, Soyabean Oil, Maize Oil, Refined Vegetable Oil, Almond Oil, Water Melon Seed Oil, Palm Oil,	Moisture	IS 548 (Part I)	0.01 g/100g to 20 g/100g
		Refractive Index @ 40°C	IS 548 (Part I)	1.4220 to 1.4800
		B. R. Reading @ 40°C	IS 548 (Part I)	Upto 82.9
		Saponification Value	IS 548 (Part I)	1.8 to 300
		Specific gravity @30°C/30°C	IS 548 (Part I)	0.6000 to 1.2000
		Iodine Value (Wij's)	IS 548 (Part I)	0.1 to 200
		Free Fatty Acid	IS 548 (Part I)	0.1 g/100g to 100 g/100g
		Acid Value	IS 548 (Part I)	0.1 to 220
		Unsaponifiable Matter	IS 548 (Part I)	0.1% to 15 %
		Peroxide Value	IS 548 (Part I)	0.2 meq/kg to 25 meq/kg
		Flash Point °C	IS 1448 (Part 21)	200 to 300
		Castor Oil (Molybdate Test)	IS 548 (Part II)	Qualitative (Positive/Negative)
		Sesame Oil (Baudouin Test)	IS 548 (Part II)	Qualitative (Positive/Negative)
		Cottonseed Oil (Halphen Test)	IS 548 (Part II)	Qualitative (Positive/Negative)

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	Palmolein, Palm Kernel Oil, Sunflower Seed Oil, Rice Bran Oil, Edible Fat, Beef Fat, Mutton Fat, Goat Fat, Refined Salseed Fat, Kokum Fat, Mango Kernel Fat, Dhupa Fat, Phulwara Fat)	Mineral Oil (Holde Test)	IS 548 (Part II)	Present/Absent (Qualitative)
		Argemone Oil	IS 548 (Part II)	Qualitative (Positive/Negative)
		Bellier Turbidity Temperature (BTT) (Olive Oil, Rapeseed Oil, Teel Oil, Mustard Oil)	IS 548 (Part II)	10 °C to 45 °C
		Melting Point °C (Palm Oil)	FSSAI Lab Manual 2	10 °C to 50 °C
		Cloud Point °C (Palmolein)	FSSAI Lab Manual 2	2 °C to 25 °C
6.	Ghee	Moisture	IS 3508	0.1 to 50
		B. R. Reading @ 40°C	IS 3508	10 to 70
		Free-Fatty Acid	IS 3508	0.1 % to 50 %
		Test For The Presence Of Sesame Oil (Baudouin Test)	IS: 548 (Part I)	Qualitative (Positive/Negative)
7.	Sugar And Confectioneries	Sulphated Ash	IS: 6287	1g/100 g to 25 g/100g
		Acid Insoluble Ash	IS: 6287	1g/100 g to 25 g/100g
8.	Sugar and Confectioneries	Total Sugar, Reducing Sugar, Sucrose	FSSAI Manual 4 (A9)	Upto 95 %
	Fruit Products		FSSAI Manual 5 (2.6)	
	Milk and Milk Products		FSSAI Manual 1 (9.4.1)	
	Bakery Products		FSSAI Manual 3	
9.	Food Products (Cereal and Cereal Products, Pulses, Milk and Milk Products, Bakery Products)	Protein	ATLAS/SOP/01 Issue date: 01/07/2017	1.5% to 80 %

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II.	WATER			
1.	Drinking Water	pH	IS 3025 (Part 11)	3 to 12
		Chlorides	IS 3025 (Part 32)	3 mg/l to 500 mg/l
		Total Dissolved Solids	IS 3025 (Part 16)	5 mg/l to 1000 mg/l
		Total Alkalinity	IS 3025 (Part 23)	5 mg/l to 500 mg/l