Industrial Area, Bidadi Hobli, Ramanagar Dist., Karnataka

Accreditation Standard ISO/IEC 17025: 2005

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Validity 18.09.2017 to 17.09.2019 Last Amended on --

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

CHEMICAL TESTING

I.	FOOD & AGRIC	CULTURAL PRODUCTS		
1.	Bakery And Co	onfectionery Products		
a.	Biscuits	Moisture	IS 1011	0.1% to 50%
		Ash	IS 12711	0.1% to 10%
		Acid insoluble Ash in dil. HCl	IS 1011	0.01% to 2%
		Fat	IS 12711	0.1% to 40%
		Acidity of extracted Fat (as oleic acid)	IS 1011	0.1% to 3%
		Sugars (Total & Reducing sugar)	AOAC Chapter 44, 984.22	0.1 % to 75%
		Sugar Profiling (HPLC)		1 % to 45%
		Fructose		1 % to 45%
		Glucose	1	1 % to 45%
		Sucrose		1 % to 45%
		Lactose		1 % to 45%
<u> </u>		Maltitol	<u> </u>	1 % to 45%
		Fatty acid profiling Saturated Mono unsaturated Poly unsaturated Trans - Elaidic	AOAC Chapter 41, 969.33	Qualitative
	<u> </u>	Protein	AOAC Chapter 32, 920.87	1% to 35%
		Salt as Sodium Chloride	AOAC Chapter 40, 950.52	0.25% to 5%
		Total Dietary Fibre	AOAC Chapter 45, 985.29	0% to 10%
b.	Bread	Moisture	IS 12711	0.1% to 50%
		Ash		0.1% to 10%
		Acid insoluble Ash		0.01% to 2%
		Fat		0.1% to 40%

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2.	Milk & Dairy Produc	ets		
a.	Sweetened	Milk Fat	IS 1224 (Part II)	0.1% to 99%
	condensed milk	Milk solids	IS 11622	0.1% to 99%
		Milk protein in milk solids not fat	AOAC 920.115	0.5% to 40%
b.	Whole milk	Moisture	AOAC 927.05	0.1% to 15%
	powder, Skimmed	Milk Fat	IS 1224 (Part II)	0.1% to 30%
	milk powder	Milk protein in milk solids not fat	IS 1165	0.5% to 40%
		Titratable acidity		0% to 2%
		Total ash on dry weight basis		0.1% to 10%
C.	Butter	Moisture	IS 3507	0.01% to 5%
		Milk Fat		0.1% to 99%
		Milk solids not fat		0.01% and above
		common salt		0.1% to 5%
d.	Whey powder	Moisture	AOAC Chapter 33, 927.05	0.01% to 8%
		Milk fat	IS 1224 (Part II)	0.1% to 10%
		Milk Protein	IS 1165	1% to 40%
		Total Ash		0.1% to 10%
		pH in 10% solution		4 to 9
		Lactose content expressed as anhydrous lactose	AOAC Chapter 33, 930.28	1% to 60%
3.	Cereals, Pulses and	l Cereal Products		
a.	Maida	Moisture	IS 1009	0.1% to 20%
		Total Ash		0.1% to 10%
		ash insoluble in HCl		0.01% to 5%
· -		Gluten on dry basis		0.5% to 15%
		Alcoholic acidity as H ₂ SO ₄		0.1% to 6%
		Total Dietary Fibre	AOAC Chapter 45, 20 th Edn. 2016, 985.29	1% to 10%

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b.	Atta	Moisture	IS 1155	0.1% to 20%
		Total Ash		0.1% to 15%
		Ash insoluble in HCl		0.01% to 5%
<u> </u>		Gluten on dry basis		0.5% to 15%
		Alcoholic acidity as H ₂ SO ₄		0.1% to 6%
		Total Dietary Fibre	AOAC Chapter 45, 985.29	1% to 20%
C.	Rolled Oats	Moisture	IS 1484	0.1% to 15%
		Total Ash]	0.1% to 15%
		Ash insoluble in dil HCl		0.01% to 5%
		Alcohol acidity		0.1% to 10%
4.	Herbs, Spices & Co	ndiments		
a.	Chillies and Chilly	Moisture	IS 1797	0.1% to 20%
	products	Total Ash on dry basis]	0.1% to 15%
		Ash insoluble in dil HCl		0.01% to 10%
ļ		on dry basis		
b.	Cumin whole &	Moisture		0.1% to 20%
	Cumin Powder	Total Ash on dry basis		0.1% to 15%
		Ash insoluble in dil HCl on dry basis		0.01% to 10%
		Volatile content on dry basis		0.1% to 5%
C.	Coriander Powder	Moisture		0.1% to 20%
		Total Ash on dry basis		0.1% to 15%
		Ash insoluble in dil HCl on dry basis		0.01% to 10%
		Volatile content on dry basis		0.1% to 5%
d.	Pepper Powder	Moisture	IS 1797	0.1% to 20%
		Total Ash on dry basis	1	0.1% to 15%
		Volatile content on dry basis		0.1% to 5%
		non volatile ether extract on dry basis		0.1% to 20%

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SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
e.	Turmeric Powder	Moisture	IS 3576	0.1% to 20%
		Total Ash on dry basis		0.1% to 15%
		Ash insoluble in dil HCl		0.01% to 10%
		on dry basis	<u> </u>	
		Test for lead chromate	<u> </u>	Qualitative
f.	Ajwain	Moisture	IS 1797	0.1% to 15%
		Volatile content on dry basis		0.1% to 5%
g.	Amchur Powder	Moisture	IS 13242	0.1% to 20%
	(Dried Mango	Total ash (salt free basis)		0.1% to 15%
	Powder)	Ash insoluble in dil HCl		0.01% to 10%
		Acidity as anhydrous		12% to 26%
		tartaric acid		
5.	Edible Oils & Fats			
a.	Palm Oil,	Moisture	IS 548 (Part I)	0.01% to 5%
	Palmolein, IE	Refractive index at 40		1.30 to 1.70
	Vegetable Fat	deg Celsius		
		Melting point , open tube		20 to 80 deg celsius
		capillary slip method		
		Acid value		0.01 to 20
		lodine value		5 to 150
		(Wij's method)		
6.	Coffee & Cocoa Pro			
a.	Chocolates	Total Fat	IS 1163	0.1% to 25%
		Acid insoluble ash		0.01% to 5%
b.	Low and high fat	Total Ash	IS 1164	0.1% to 15%
	cocoa powder	Ash insoluble in dil HCl		0.01% to 5%
		Alkalinity of total ash	i 	0.1% to 10%
		Cocoa butter		1% to 15%
7.	Sugar & sugar Prod	~	<u> </u>	
a.	Sugar	Moisture	IS 15279	0.1% to 2%
		Sucrose		99 to 105

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SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
8.	Honey & Honey Pro	ducts		
a.	Honey	Specific gravity at 27deg celsius	IS 4941	1.35 to 1.40
		Moisture		1% to 30%
		Total Reducing sugars		60% to 90%
		Sucrose		2% to 5%
		Ash		0.1% to 5%
9.	Vegetables & Veget	able Products		
a.	Dehydrated	Total Ash	IS 13846	1% to 20%
	vegetables	Ash insoluble in dil HCl		0.01% to 2%
10.	Coconut & Coconut	t Products		
a.	Grated dessicated	Moisture	IS 966	0.1% to 10%
	coconut	Total Ash		0.1% to 10%
		Acidity of extracted fat expressed as Lauric acid		0.1% to 3%
11.	Nuts & Nut Product		 	
a.	Pista, Almond,	Ash	AOAC Chapter 40, 950.49	0.1% to 10%
	Cashew	Moisture	IS 10619	0.1 % to 10%
		Acidity of extracted fat expressed as oleic acid		0.01 & above
12.	Food Additives & P			
a.	Sorbic acid (Preservative)	Assay	Food Chemicals Codex - Tenth edition	99% to 105%
b.	Citric acid	Assay	Food chemicals codex – Tenth edition	99% to 105%

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CI.	Product / Material	Chasifia Tast	Toot Mothed Chasification	Dangs of Tooting /
SI.	Product / Waterial	Specific Test	Test Method Specification	Range of Testing /
	of Test	Performed	against which tests are	Limits of Detection
			performed	

MECHANICAL TESTING

I.	PLASTIC & POLYMERS			
1.	Plastic Films	Seal Strength	ASTM F88-F88M 15	200 to 3000 (g/25mm width)
		Bond Strength	ASTM F 904 - 16	40 to 210 (g/25mm width)
		Oxygen Transmission rate	ASTM D3985-05 (Reapproved 2010)	0.5 to 3000 (cc/square meter/24hrs)
		Water Vapour Transmission Rate	ASTM E 398 - 13	0.2 to 10 (g/square meter/24 hrs

Vinay Kumar Tyagi Convenor