

Laboratory	Mats India Private Limited, Laboratory Services Division, 1A, 1B, Perumal Koil Street, Nerkundram, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	11.09.2015
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S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
I.	FOOD & AGRICULTURAL PRODUCTS			
1.	Cereal, Pulses and by Product (Edible food grain whole, split or ground/flour, Raw & Processed and flour based product, Premixes, and other food grains)	Moisture	AOAC (19 th Edition) 925.10	(1 g to 20 g)/100 g
		Total ash	AOAC (19 th Edition) 923.03	(0.5 g to 20 g)/100 g
		Crude protein	IS 7219: 1973 (RA 2010)	(1 g to 50 g)/100 g
		Cold water soluble Extract	AOAC (19 th Edition) 938.03	(1 g to 25 g)/100 g
		Alcoholic acidity	IS 1155: 1968 (RA 2010)	(0.1 g to 6 g)/100 g
		Acid insoluble ash	IS 1155: 1968 (RA 2010)	(0.01 g to 5 g)/100 g
		Crude Fat	AOAC (19 th Edition) 920.85	(1 g to 25 g)/100 g
		Gluten	IS 1155: 1968 (RA 2010)	(0.5 g to 50 g)/100 g
		Crude fibre	IS 10226 (Part 1): 1982 (RA 2010)	(1 g to 30 g)/100 g
		Carbohydrate	MATS/SOP/CSF/CP-010 Issue No:01, Issue Date: 15.09.14	(10 g to 100 g)/100 g
	Energy	MATS/SOP/CSF/CP-011 Issue No:01, issue Date: 15.09.14	(50 Kcal to 1200 Kcal)/ 100 g	
2.	Spices & Condiments (Edible spices whole, ground, or mixed, processed & premix masala)	Moisture	AOAC (19 th Edition) 986.21 IS 1797: 1985 (RA 2013)	(1 g to 30 g)/100 g
		Total ash	AOAC (19 th Edition) 941.12 IS 1797: 1985 (RA 2013)	(0.5 g to 20 g)/100 g
		Total Nitrogen	IS 7219: 1973 (RA 2010)	(1 g to 25 g)/100 g

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	Spices & Condiments (Edible spices whole, ground, or mixed, processed & premix masala)	Protein	IS 7219: 1973 (RA 2010)	(1 g to 30 g)/100 g
		Cold water soluble extract	IS 1797: 1985 (RA 2013)	(0.5 g to 25 g)/100 g
		Alcohol - soluble extract	IS 1797: 1985 (RA 2013)	(0.5 g to 10 g)/100 g
		Acid insoluble ash	AOAC (19 th Edition) 941.12 IS 1797 : 1985 (RA 2013)	(0.1 g to 5 g)/100 g
		Crude Fat	IS 1797: 1985 (RA 2013)	(0.5 g to 50 g)/100 g
		Crude fibre	IS 1797: 1985 (RA 2013)	(1 g to 50 g)/100 g
		Water insoluble ash	IS 1797: 1985 (RA 2013)	(0.01 g to 10 g)/100 g
		Volatile oil	IS 1797: 1985 (RA 2013) AOAC (19 th Edition) 962.17	(1 ml to 25 ml)/100 g
		Calcium	IS 1797: 1985 (RA 2013) AOAC (19 th Edition) 941.12	(0.05 g to 5 g)/100 g
		Salt as NaCl	IS 1797: 1985 (RA 2013)	(0.1 g to 5 g)/100 g
		Curcumin	IS 10925: 1984 RA 2012	(0.1 g to 5 g)/100 g
		Carbohydrate	MATS/SOP/CSF/SC-015 Issue No:01, Issue Date:15.09.14	(10 g to 100 g)/100 g
		Energy	MATS/SOP/CSF/SC-016 Issue No:01, Issue Date: 15.09.14	(50 Kcal to 1200 Kcal)/ 100 g
		Copper	AOAC (19 th Edition) 999.11	1 mg/kg to 100 mg/kg
	Zinc	AOAC (19 th Edition) 999.11	0.5 mg/kg to 100 mg/kg	

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3.	Spices & Condiments (Edible spices whole, ground, or mixed, processed & premix masala)	Lead	AOAC (19 th Edition) 999.11	1.5 mg/kg to 100 mg/kg
		Cadmium	AOAC (19 th Edition) 999.11	0.2 mg/kg to 100 mg/kg
		Tin	AOAC (19 th Edition) 980.19	15 mg/kg to 400 mg/kg
		Mercury	AOAC (19 th Edition) 971.21	0.2 mg/kg to 10 mg/kg
	Nuts & Nut Products (All edible raw, processed & Dried nuts)	Moisture	AOAC (19 th Edition) 925.40 IS 4684 : 1975 (RA 2015)	(0.5 g to 30 g)/100 g
		Total ash	AOAC (19 th Edition) 950.49 IS 4684: 1975 (RA 2015)	(0.1 g to 10 g)/100 g
		Protein	IS 7219: 1973 (RA 2010)	(1 g to 50 g)/100 g
		Acid insoluble ash	IS 4684: 1975 (RA 2015)	(0.01 g to 5 g)/100 g
		Crude Fat	IS 4684 : 1975 (RA 2015) AOAC (19 th Edition) 948.22	(0.1 g to 70 g)/100 g
		Crude fibre	IS 10226 (Part 1): 1982 (RA 2010)	(1 g to 20 g)/100 g
4.	Coffee, Cocoa and by Products (Whole & grounded, instant, roasted, filter coffee & Chicory)	Carbohydrate	MATS/SOP/CSF/NP-007 Issue No:01, Issue Date: 15.09.14	(10 g to 100 g)/100 g
		Energy	MATS/SOP/CSF/NP-008 Issue No:01, Issue Date: 15.09.14	(50 Kcal to 1200 Kcal)/ 100 g
4.	Coffee, Cocoa and by Products (Whole & grounded, instant, roasted, filter coffee & Chicory)	Moisture	AOAC (19 th Edition) 968.11 IS 3077: 1992 (RA 2014)	(1 g to 5 g)/100 g
		Total ash	AOAC (19 th Edition) 920.93 IS 3077: 1992 (RA 2014)	(0.1 g to 10 g)/100 g

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	Coffee, Cocoa and by Products (Whole & grounded, instant, roasted, filter coffee & Chicory)	Protein	IS 7219: 1973 (RA 2010)	(5 g to 25 g)/100 g
		Acid insoluble ash	IS 3077: 1992 (RA 2014)	(0.01 g to 5 g)/100 g
		Water soluble ash	IS 3077: 1992 (RA 2014)	(20 g to 80 g)/100 g
		Crude fibre	IS 10226 (Part 1): 1982 (RA 2010)	(0.5 g to 10 g)/100 g
		Alkalinity of soluble ash	IS 3077: 1992 (RA 2014)	0.1 ml to 10 ml of 0.1 N HCl/g
		Water soluble matter	IS 3077: 1992 (RA 2014)	(20 g to 50 g)/100 g
		Petroleum Ether Extract	AOAC (19 th Edition) 920.97 IS 3077: 1992 (RA 2014)	(1 g to 20 g)/100 g
		Carbohydrate	MATS/SOP/CSF/CC-010 Issue No:01, Issue Date:15.09.14	(10 g to 100 g)/100 g
		Energy	MATS/SOP/CSF/CC-011 Issue No:01, Issue Date:15.09.14	(50 Kcal to 1200 Kcal)/100 g
5.	Tea & Tea Products (Instant tea, green tea, lemon tea, ginger tea, chamomile tea, masala tea & other tea products)	Moisture	AOAC (19 th Edition) 925.19 IS 13852: 1994 (RA 2014)	(1 g to 30 g)/100 g
		Total ash	AOAC (19 th Edition) 920.100 IS 13854: 1994 (RA 2014)	(0.5 g to 10 g)/100 g
		Acid insoluble ash	AOAC (19 th Edition) 920.100	(0.01 g to 5 g)/100 g
		Water soluble ash	AOAC (19 th Edition) 920.100 IS 13855: 1993 (RA 2014)	(20 g to 80 g)/100 g
		Crude fibre	IS 10226 (Part 1): 1982 (RA 2010)	(0.5 g to 20 g)/100 g

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	Tea & Tea Products (Instant tea, green tea, lemon tea, ginger tea, chamomile tea, masala tea & other tea products)	Alkalinity of water soluble ash	AOAC (19 th Edition) 920.100	(0.1 g to 5 g)/100 g
		Water extract	AOAC (19 th Edition) 920.104	(20 g to 80 g)/100 g
		Carbohydrate	MATS/SOP/CSF/TT-008 Issue No:01 , Issue Date: 15.09.14	(10 g to 100 g)/100 g
		Energy	MATS/SOP/CSF/TT-009 Issue No:01 , Issue Date: 15.09.14	(50 Kcal to 1200 Kcal)/100 g
		Copper	AOAC (19 th Edition) 999.11	1 mg/kg to 250 mg/kg
		Zinc	AOAC (19 th Edition) 999.11	0.5 mg/kg to 100 mg/kg
		Lead	AOAC (19 th Edition) 999.11	1.5 mg/kg to 100 mg/kg
		Cadmium	AOAC (19 th Edition) 999.11	0.2 mg/kg to 100 mg/kg
		Tin	AOAC (19 th Edition) 980.19	15 mg/kg to 400 mg/kg
		Mercury	AOAC (19 th Edition) 971.21	0.2 mg/kg to 10 mg/kg
	Caffeine Content	IS 16027: 2012	(1 g to 5 g)/100 g	
6.	Animal Feeds (Oil Cakes, cattle feed, Poultry Feed, Shrimp Feed, Fish Feed, pet food & other animal feed)	Moisture	IS 7874 (Part 1): 1975 (RA 2014)	(1 g to 15 g)/100 g
		Total ash	AOAC (19 th Edition) 942.05 IS 7874 (Part 1): 1975 (RA 2014)	(0.5 g to 15 g)/100 g
		Total Nitrogen	IS 7219: 1973 (RA 2010)	(1 g to 15 g)/100 g
		Crude Protein	IS 7219: 1973 (RA 2010)	(1 g to 70 g)/100 g

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	Animal Feeds (Oil Cakes, cattle feed, Poultry Feed, Shrimp Feed, Fish Feed, pet food & other animal feed)	Acid insoluble ash	IS 7874 (Part 1): 1975 (RA 2014)	(0.05 g to 10 g)/100 g
		Crude Fat	IS 7874 (Part 1): 1975 (RA 2014)	(0.5 g to 30 g)/100 g
		Crude fibre	IS 7874 (Part 1): 1975 (RA 2014)	(0.5 g to 30 g)/100 g
		Iodine	IS 7874 (Part 2): 1975 (RA 2014)	(0.1 g to 10 g)/100 g
		Salt as NaCl	IS 7874 (Part 2): 1975 (RA 2014)	(0.1 g to 5 g)/100 g
		Phosphorous as P	AOAC (19 th Edition) 965.17	(0.05 g to 10 g)/100 g
		Carbohydrate	MATS/SOP/CSF/AF-011 Issue No.01, Issue Date:15.09.14	(10 g to 100 g)/100 g
		Energy	MATS/SOP/CSF/AF-012 Issue No.01, Issue Date:15.09.14	(50 Kcal to 1200 Kcal)/ 100 g
7.	Bakery & Confectionery Products (Breads, Cakes, Biscuits, Toffees, Jams, Jellies, Pizzas, Cookies, Rusk, Snacks Chocolates, savouries and other baked products)	Moisture	IS 12711: 1989 (RA 2015)	(0.1 g to 35 g)/100 g
		Total ash	IS 12711: 1989 (RA 2015)	(0.1 g to 10 g)/100 g
		Crude Protein	IS 7219: 1973 (RA 2010)	(1 g to 20 g)/100 g
		Acid Insoluble ash	IS 12711: 1989 (RA 2015)	(0.01 g to 5 g)/100 g
		Crude Fat	IS 12711: 1989 (RA 2015)	(0.1 g to 30 g)/100 g
		Crude fibre	IS 12711: 1989 (RA 2015)	(0.1 g to 10 g)/100 g
		Salt as NaCl	AOAC (19 th Edition) 960.29	(0.1 g to 20 g)/100 g
		Acidity of Extracted fat	IS 12711: 1989 (RA 2015)	(0.1 g to 3 g)/100 g

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	Bakery & Confectionery Products (Breads, Cakes, Biscuits, Toffees, Jams, Jellies, Pizzas, Cookies, Rusk, Snacks Chocolates, savouries and other baked products)	Carbohydrate	MATS/SOP/CSF/BC-009 Issue No.01, Issue Date:15.09.14	(10 g to 100 g)/100 g
		Energy	MATS/SOP/CSF/BC-010 Issue No.01, Issue Date:15.09.14	(50 Kcal to 1200 Kcal)/100 g
8.	Tobacco & its Products	Moisture	AOAC (19 th Edition) 966.02	(1 g to 30 g)/100 g
		Total ash	IS 5643: 1999 (RA 2014)	(0.01 g to 40 g)/100 g
		Chloride	AOAC (19 th Edition) 960.29	(0.1 g to 15 g)/100 g
		Acid insoluble ash	IS 5643: 1999 (RA 2014)	(0.01 g to 10 g)/100 g
		Total Nitrogen	IS 7219: 1973 (RA 2010)	(0.5 g to 10 g)/100 g
		Alkaloids as Nicotine	AOAC (19 th Edition) 960.08	(0.01 g to 10 g)/100 g
9.	Sugar & Sugar Products (White & Brown sugar, mishri, icing sugar, honey, jaggery, topping syrup, caramel)	Moisture	IS 15279: 2003 (RA 2013)	(0.01 g to 5.0 g)/100 g
		Total Ash	IS 15279: 2003 (RA 2013)	(0.01 g to 10 g)/100 g
		Sulphated Ash	IS 15279: 2003 (RA 2013)	(0.01 g to 2.0 g)/100 g
		Total sugar as Sucrose	IS 15279: 2003 (RA 2013)	(10 g to 99.99 g)/100 g
		Polarization	IS 15279: 2003 (RA 2013)	50 to 100 (Z°)

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	Sugar & Sugar Products (White & Brown sugar, mishri, icing sugar, honey, jaggery, topping syrup, caramel)	Acid insoluble ash	IS 15279: 2003 (RA 2013)	(0.01 g to 5.0 g)/100 g
		Sulphur dioxide content	AOAC (19 th Edition) 990.28	5 mg/kg to 250 mg/kg
		Conductivity Ash	IS 15279: 2003 (RA 2013)	(0.01 g to 5.0 g)/100 g
		Reducing Sugar	IS 4941: 1994 (RA 2014)	(0.01 g to 20 g)/100 g
		Colour (Icumsa)	IS 15279:2003 (RA 2013)	20 to 250 (Unit)
		Copper	AOAC (19 th Edition) 999.11	0.5 mg/kg to 100 mg/kg
		Zinc	AOAC (19 th Edition) 999.11	0.5 mg/kg to 100 mg/kg
		Lead	AOAC (19 th Edition) 999.11	1.5 mg/kg to 100 mg/kg
		Cadmium	AOAC (19 th Edition) 999.11	0.2 mg/kg to 100 mg/kg
		Tin	AOAC (19 th Edition) 980.19	15 mg/kg to 400 mg/kg
	Mercury	AOAC (19 th Edition) 971.21	0.01 mg/kg to 10 mg/kg	
10.	Mycotoxins in Food & Feed	Total Aflatoxin (B1+B2+G1+G2)	AOAC (19 th Edition) 999.07	5 µg/kg to 50 µg/kg
		Aflatoxin G2	AOAC (19 th Edition) 999.07	0.5 µg/kg to 50 µg/kg
		Aflatoxin G1	AOAC (19 th Edition) 999.07	2.0 µg/kg to 50 µg/kg
		Aflatoxin B2	AOAC (19 th Edition) 999.07	0.5 µg/kg to 50 µg/kg
		Aflatoxin B1	AOAC (19 th Edition) 999.07	2.0 µg/kg to 50 µg/kg

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11.	Mycotoxins in Groundnut	Aflatoxin B1	AOAC (19 th Edition) 999.07 Chapter No.: 49.2.29	0.5 µg/kg to 50 µg/kg
		Aflatoxin B2		0.5 µg/kg to 50 µg/kg
		Aflatoxin G1		0.5 µg/kg to 50 µg/kg
		Aflatoxin G2		0.5 µg/kg to 50 µg/kg
		Total Aflatoxin		0.5 µg/kg to 50 µg/kg
II.	WATER			
1.	Potable Water, Domestic Water, Bore well Water, Drinking Water, Ground Water	Odour	IS 3025 (Part 6): 1983 (RA 2012) APHA (22 nd Edition) 2150 B: 2012	Qualitative (Agreeable/ Disagreeable)
		Taste	IS 3025 (Part 8): 1984 (RA 2012) APHA (22 nd Edition) 2160 B: 2012	Qualitative (Agreeable/ Disagreeable)
		Turbidity	IS 3025 (Part 10): 1984 (RA 2012) APHA (22 nd Edition) 2130 B: 2012	0.1 NTU to 500 NTU
		Electrical Conductivity	IS 3025 (Part 14): 2013 APHA (22 nd Edition) 2510 B: 2012	1.0 µS to 100 mS
		Colour	IS 3025 (Part 4): 1983 (RA 2012) APHA (22 nd Edition) 2120 B: 2012	1 Hazen to 100 Hazen
		Residual Free Chlorine	IS 3025: Part 26 1986 RA 2014. APHA (22 nd Edition) 4500 C1 B: 2012	0.1 mg/L to 100 mg/L
		Total Solids	IS 3025 (Part 15): 1984 (RA 2014) APHA (22 nd Edition) 2540 B: 2012	1.0 mg/L to 10000 mg/L

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	Potable Water, Domestic Water, Bore well Water, Drinking Water, Ground Water	Total Acidity as CaCO ₃	IS 3025 (Part 22): 1986 (RA 2014) APHA (22 nd Edition) 2310 B: 2012	1 mg/L to 5000 mg/L
		Free Carbon dioxide as CO ₂	IS 3025 (Part 61): 2008 (RA 2013) APHA (22 nd Edition) 4500 CO ₂ C: 2012	1 mg/L to 1000 mg/L
		pH at 25 °C	IS 3025 (Part 11): 1983 (RA 2012) APHA (22 nd Edition) 4500 H ⁺ : 2012	4 to 12
		Total Alkalinity as CaCO ₃	APHA (22 nd Edition) 2320 B: 2012 IS 3025 (Part 23): 1986 (RA 2014)	1 mg/L to 5000 mg/L
		Chloride as Cl ⁻	IS 3025 (Part 32): 1988 (RA 2009) APHA (22 nd Edition) 4500 Cl ⁻ B: 2012	1 mg/L to 5000 mg/L
		Total Hardness as CaCO ₃	APHA (22 nd Edition) 2340 C: 2012	1 mg/L to 5000 mg/L
		Calcium as Ca	APHA (22 nd Edition) 3500 Ca B: 2012	1 mg/L to 2000 mg/L
		Magnesium as Mg	APHA (22 nd Edition) 3500 Mg B: 2012	1 mg/L to 2000 mg/L
		Total Dissolved Solids	IS 3025 (Part 16): 1984 (RA 2012) APHA (22 nd Edition) 2540 C: 2012	1.0 mg/L to 10000 mg/L
		Total Suspended Solids	IS 3025 (Part 17): 1984 (RA 2012) APHA (22 nd Edition) 2540 D: 2012	1 mg/L to 500 mg/L
		Nitrate as NO ₃	APHA (22 nd Edition) 4500 NO ₃ B.: 2012	0.5 mg/L to 400 mg/L

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	Potable Water, Domestic Water, Bore well Water, Drinking Water, Ground Water	Nitrite as NO ₂	IS 3025 (Part 34): 1988 (RA 2014) APHA (22 nd Edition) 4500 NO ₂ B: 2012	0.01 mg/L to 50 mg/L
		Sulphate as SO ₄ ²⁻	IS 3025 (Part 24): 1986 (RA 2009)	1 mg/L to 2000 mg/L
		Fluoride as F	APHA (22 nd Edition) 4500 F,B,D: 2012	0.1 mg/L to 10.0 mg/L
		Phosphorous as P	IS 3025 (Part 31): 1988 (RA 2014) APHA (22 nd Edition) 4500 P B,D: 2012	0.05 mg/L to 50 mg/L
		Hexavalent Chromium	IS 3025 (Part 52): 2003 (RA 2014) APHA (22 nd Edition) 3500 Cr B: 2012	0.05 mg/L to 100 mg/L
		Ammonia (as total ammonia-N)	IS 3025 (Part 34): 1988 (RA 2014)	0.1 mg/L to 1.0 mg/L
		Silica as SiO ₂	IS 3025 (Part 35): 1988 (RA 2009) APHA (22 nd Edition) 4500 SiO ₂ C: 2012	0.2 mg/L to 200 mg/L

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