

Laboratory **Regional Food Research & Analysis Centre, Department of Horticulture & Processing, Udyan Bhawan Campus 2, Sapru Marg, Lucknow, Uttar Pradesh**

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

Certificate Number **TC-6143**

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Validity **16.06.2018 to 15.06.2020**

Last Amended on **25.07.2018**

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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BIOLOGICAL TESTING

I. FOOD AND AGRICULTURAL PRODUCTS				
1.	Milk and Dairy Product	Total Plate Count	IS 5402	≥ 10cfu/g/ml ≥ 1 cfu/g/ml
		Yeast and Moulds	IS 5401 (Part- 1)	≥ 10 cfu/g ≥ 1 cfu/ml
		Coliforms	IS 5401 (Part-2)	Qualitative Present/Absent/g/ml
2.	Spices and Condiments	Total Plate Count	IS 5402	≥ 10 cfu/g/ml
		Yeast and Moulds	IS 5403	≥ 10 cfu/g/ml
		Coliforms	IS 5401 (Part- 1)	≥ 10 cfu/g/ml
			IS 5401 (Part-2)	Qualitative Present/Absent/g)
E coli	IS 5887 (Part-1)	Qualitative Present/Absent/g/ml		
3.	Fruit & fruit products, Vegetables & vegetable products	Total Plate Count	IS 5402	≥ 10 cfu/g/ml
		Yeast and Moulds	IS 5403	≥ 10 cfu/g/ml
		Coliforms	IS 5401 (Part- 1)	≥ 10 cfu/g/ml
			IS 5401 (Part-2)	Qualitative (Present or Absent/g)
E coli	IS 5887 (Part-1)	Qualitative Present/Absent/g/ml		
4.	Bakery & confectionary products (Biscuits, Bread)	Total Plate Count	IS 5402	≥ 10 cfu/g
		Yeast and Moulds	IS 5403	≥ 10 cfu/g
		Coliforms	IS 5401 (Part- 1)	≥ 10 cfu/g
			IS 5401 (Part-2)	Qualitative (Present or Absent/g)
E coli	IS 5887 (Part-1)	Qualitative Present/Absent/g		
5.	Pulses/Cereal products (Wheat flour, corn flour,	Total Plate Count	IS 5402	≥ 10 cfu/g
		Yeast and Moulds	IS 5403	≥ 10 cfu/g

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	Soya, flour, flour blends, Besan, Soya chunk)	Coliforms	IS 5401 (Part-1) IS 5401 (Part-2)	≥10 cfu/g Qualitative (Present/Absent/g)
		E coli	IS 5887 (Part-1)	Qualitative (Present/Absent/g)
6.	Infant foods (Infant formula, Malted milk Food, Milk cereal based weaning foods.)	Total Plate Count	IS 5402	≥10cfu/g/ml/ ≥1cfu/g/ml
		Yeast and Moulds	IS 5403	≥ 10 cfu/g ≥ 1 cfu/ml
		E coli	IS 5887 (Part-1)	Qualitative (Present/Absent/g/ml)
II.	WATER			
1.	Water (Drinking water, Natural & Packaged drinking water, Process water, Swimming pool water, Ice.)	Total Plate Count	IS 5402	≥ 1 cfu/ml
		Yeast and Moulds	IS 5403	Qualitative (Present/Absent)/100 ml
		Coliforms	IS 1622	Qualitative (Present/Absent)/100 ml
		E coli	IS 1622	Qualitative (Present/Absent)/100 ml
III.	ANIMAL FOOD AND FEEDS			
1.	Animal Feed Mineral mix, Poultry Feed mineral mix	Total Plate Count	IS 5402	≥ 10 cfu/g
		Yeast and Moulds	IS 5403	≥ 10 cfu/g
		Coliforms	IS 5401 (Part-1)	≥10 cfu/g
		E coli	IS 5887 (Part-1)	Qualitative (Present or Absent/g)

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CHEMICAL TESTING

I.	FOOD AND AGRICULTURAL PRODUCTS			
1.	Milk and Dairy Product, Milk, Milk powder, Paneer, Khoya	Moisture	FSSAI Manual Milk & Milk Products, (10.3), 2016	1%to 5%
		Milk Fat	FSSAI Manual Milk & Milk Products, (1.3.4.1), 2016	1%to 20%
		Total Solids	FSSAI Manual Milk & Milk Products, (1.3.3), 2016	1%to 20%
		Starch	FSSAI Manual Milk & Milk Products, (1.2.2.1), 2016	Qualitative (Present/Absent)
		Cane sugar	FSSAI Manual Milk & Milk Products, (1.2.1.1), 2016	Qualitative (Present/Absent)
		Titration Acidity as lactic acid	FSSAI Manual Milk & Milk Products, (10.4), 2016	0.2% to 5%
2.	Spices and Condiments (Ground and powdered)	Moisture	FSSAI Manual, Spices & Condiments(3.0), 2016	1% to 15%
		Volatile Oil	FSSAI Manual, Spices & Condiments (10.0), 2016	0.1% to 8%
		Total ash (dry basis)	FSSAI Manual, Spices & Condiments (4.0) 2016	2% to 8%
		Ash insoluble in dil. HCl	FSSAI Manual, Spices & Condiments (5.0) 2016	0.2% to 1%
		Cold Water Soluble Extract	FSSAI Manual, Spices & Condiments,(6.0) 2016	20% to 70%
		Alcohol Soluble Extract	FSSAI Manual, Spices & Condiments (7.0)2016	4% to 14%
3.	Fruit & fruit products, Vegetables & vegetable products (Raw & Processed)	Moisture	FSSAI Manual 5, (4.1) 2016 Fruits and Vegetable	5.0% to 88%
		Total Ash (dry wt. basis)	FSSAI Manual 5, (11.3) 2016 Fruits and Vegetable	0.1% to 10%

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		Protein (N x 6.25)	IS 7219	0.1% to 10%
		pH	FSSAI Manual 5, (2.3) 2016 Fruits and Vegetable	3.00 to 7.00
		Titration Acidity as citric acid	FSSAI Manual 5, (2.4) 2016 Fruits and Vegetable	3% to 10%
		Total Soluble Solids (T.S.S.) at °Brix	FSSAI Manual5, (1.6) 2016 Fruits and Vegetable	1% to 70%
4.	Bakery & confectionary products (Biscuits, Bread)	Moisture	IS 12711	0.1% to 15%
		Total Ash (dry wt. basis)	IS 12711	0.1% to 10%
		Total Fat	IS 12711	1% to 40%
		Protein (N x 6.25)	IS 7219	1% to 20%
		Acid insoluble ash	IS 12711	0.1% to 5%
5.	Pulses/Cereal products (Wheat flour, corn flour, Soya, flour, flour blends, Besan, Soya chunk)	Moisture	FSSAI Manual (8.1) 2016	0.1% to 10%
		Total Ash (dry wt. basis)	FSSAI Manual (8.2) 2016	0.1% to 10%
		Total Fat	IS 12711	1% to 20%
		Protein (N x 5.83)	IS 7219	1% to 40%
		Acid insoluble ash	FSSAI Manual (8.3)2016	0.1% to 10%
		Gluten (dry wt. basis)	FSSAI Manual (8.4) 2016	1% to 10%
6.	Infant foods, Infant formula, Malted milk Food, Milk cereal based weaning foods.	Moisture	FSSAI Manual 1, (10.2) 2015	0.1% to 10%
		Total Ash (dry wt. basis)	IS 14433	0.1% to 10%
		Acid insoluble ash	IS 14433	0.1% to 5%
		Protein (N x 6.35)	IS 7219	1% to 30%
7.	Honey	Moisture	IS 4941	13% to 25%
		Total Ash (dry wt. basis)	IS 4941	0.1% to 10%
		Fiehe's test	IS 4941	Qualitative (Positive/Negative)
		Acidity	IS 4941	0.03% to 5%

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II.	WATER			
	Water (Potable, domestic, Mineral, Process, Natural, Packaged drinking, Irrigation, Swimming pool, Ice manufacture)	Total Dissolved solids	IS 3025 (Part 16)	10 mg/l to 2000 mg/l
		pH	IS 3025 (Part 11)	4.0 to 9.0
		Total Alkalinity as CaCO ₃	IS 3025 (Part 23)	1 mg/l to 500 mg/l
		Total hardness as CaCO ₃	IS 3025 (Part 21)	1 mg/l to 500 mg/l
		Free Residual chlorine	IS 3025 (Part 26)	0.1 mg/l to 10 mg/l
		Chloride as Cl	IS 3025 (Part 32)	1 mg/l to 500 mg/l
III.	POLLUTION AND ENVIRONMENT			
1.	Waste water and effluent	pH	IS 3025(Part 11)	4.0 to 9.0
		Total Dissolved solids	IS 3025(Part 16)	10 mg/l to 2000 mg/l
IV.	ANIMAL FOOD AND FEEDS			
1.	Animal Feed Mineral mix, Poultry Feed, Mineral	Moisture	IS 7874	1% to 10%
		Total Ash (dry wt. basis)	IS 7874	1% to 20%
		protein(N x 6.25)	IS 7874(Part 1)	1% to 20%
		Total Fat	IS 7874	1% to 20%
		Acid insoluble ash	IS 7874	0.05% to 10%