

Laboratory	Dabur Research & Development Centre (Analytical Division), Plot No. 22, Site IV, Sahibabad, Ghaziabad, Uttar Pradesh		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	28.05.2015
Certificate Number	T-2524	Valid Until	27.05.2017
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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. FOODS & AGRICULTURAL PRODUCTS				
1. Fruits and Vegetable products				
	(Juices, Fruit Yoghurt Drink, Coconut Milk & Coconut Water)	Total Soluble Solids	FSSAI Lab Manual-5,2012, IS 13815: 2009	0.5 ° to 30 ° Brix
		pH	DRDC/AD/STP/001 (15.05.2001, Rev 01)	2 to 10
		Specific gravity at 25 °C	DRDC/AD/STP/002 (15.05.2001, Rev 01) , IS 4941:1994 (RA 2008)	0.8 to 1.5
		Acidity	DRDC/AD/STP/003 (07.03.2007, Rev 00)	(0.1 g to 3 g)/100 g
		Anthocyanin	DRDC/AD/STP/004 (24.07.2012, Rev 00)	(0.2 mg to 30 mg)/100 ml
		Fat	AOAC (18 th Edition) 996.06 IS 11721: 2005	(0.2 g to 15 g)/100 g
		Protein	IS 7219: 1973 (RA 2011)	(0.5 g to 10 g)/100 g
		Total Ash	IS 4941: 1994 (RA 2008)	(0.1 g to 10 g)/100 g
		Total solids	IS 13334 (Part 2): 1992 (RA 2008)	(1 g to 30 g)/100 g
	Carbohydrate	As per National Institute of Nutrition, page No 9 (Difference method)	(1 g to 30 g)/100 g	

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	Fruits and Vegetable products (Juices, Fruit Yoghurt Drink, Coconut Milk & Coconut Water)	Energy	As per National Institute of Nutrition, page No 9 (Difference method)	(4 Kcal to 200 Kcal)/ 100 g
		Total Reducing Sugar	FSSAI Lab Manual 5,2012	(1 g to 30 g)/100 ml
		Vitamin A	DRDC/AD/STP/005 (24.07.2012, Rev 00)	1.0 mg/l to 1000 mg/l
		Vitamin E	DRDC/AD/STP/005 (24.07.2012, Rev 00)	5.0 mg/l to 1000 mg/l
		Vitamin C	DRDC/AD/STP/006 (24.07.2012, Rev 00)	(1 mg to 300 mg)/100 ml
		Resistant maltodextrin	DRDC/AD/STP/007 (24.07.2012, Rev 00)	(0.5 g to 10 g)/100 ml
		Total Dietary Fibre	AOAC (18 th Edition) 985.29 DRDC/AD/STP/008, (24.07.2012, Rev 00)	(0.5 g to 10 g)/100 ml
		Beta carotene	DRDC/AD/STP/009, (24.07.2012, Rev 00)	5.0 mg/l to 100 mg/l
		Added sugar	DRDC/AD/STP/015, (27.06.2012, Rev 00)	(2 g to 20 g)/100 ml
	Cholesterol	DRDC/AD/STP/010 (24.07.2012, Rev 00)	20 mg/l to 400 mg/l	

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2.	Spices and Condiments Spice products (Ginger Paste, Garlic paste, Ginger-Garlic paste, Bhuna Masala, Tamarind paste.)	Total Reducing Sugar	FSSAI Lab manual 5-2012	(4 g to 40 g)/100 g
		Energy	As per National Institute of Nutrition, page No 9 (Difference method)	(4 Kcal to 200 Kcal)/100 g
		Carbohydrate	As per National Institute of Nutrition, page No 9 (Difference method)	(1 g to 40 g)/100 g
		Fat	AOAC (18 th Edition) 996.06	(0.2 g to 25 g)/100 g
		Protein	IS 7219: 1973 (RA 2011)	(0.5 g to 20 g)/100 g
		Salts (as sodium chloride)	DRDC/AD/STP/003, (07.03.2007, Rev 00)	(1.0 g to 20 g)/100 g
		Acidity	DRDC/AD/STP/003, (07.03.2007, Rev 00)	(0.1 g to 6 g)/100 g
		pH	DRDC/AD/STP/001, (15.05.2001, Rev 01)	2 to 10
		Total soluble solids	FSSAI Lab Manul-5, 2012	5 ° to 40 ° brix
	Sodium benzoate	DRDC/AD/STP/013, (05.04.2011 ,Rev 00)	50 mg /kg to 3000 mg /kg	
3.	Sauces & Concentrates (Tomato Puree, Red Pepper sauce, Tomato ketch-up, Snacks Dressings)	Energy	As per National Institute of Nutrition, page No 9 (Difference method)	(20 Kcal to 300 Kcal)/100 g
		Carbohydrate	As per National Institute of Nutrition, page No 9 (Difference method)	(5 g to 70 g)/100 g

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	Sauces & Concentrates (Tomato Puree, Red Pepper sauce, Tomato ketch-up, Snacks Dressings)	Fat	AOAC, 996.06, (18 th Edition)	(0.2 g to 30 g)/100 g
		Protein	IS 7219: 1973 (RA 2011)	(0.5 g to 20 g)/100 g
		Salts (as sodium chloride)	DRDC/AD/STP/003, (07.03.2007, Rev 00)	(1.0 g to 10 g)/100 g
		Acidity	DRDC/AD/STP/003, (07.03.2007, Rev 00)	(0.3 g to 10 g)/100 g
		pH	DRDC/AD/STP/001, (15.05.2001, Rev 01)	2.0 to 10
		Total soluble solids	FSSAI Lab Manual-5, 2012	2.0 ° to 70 ° Brix
		Sodium benzoate	DRDC/AD/STP/013, (05.04.2011 , Rev 00)	50 mg/kg to 3000 mg/kg
		Weight per ml at 25°C	DRDC/AD/STP/002, (15.05.2001, Rev 01)	1.0 g/ml to 2.0 g/ml
	Capsaicin Content	DRDC/AD/STP/017, (16.01.2012, Rev 00)	20 mg/kg to 500 mg/kg	
4.	Sugar based products (Hard boil sugar confectionary, Sugar candy)	Average wt.	IP 2010	(1.5 g to 3.0 g)/ Candy
		Acidity (as anhydrous citric acid)	DRDC/AD/STP/003, (07.03.2007, Rev 00)	(0.1 g to 3.0 g)/100 g
		Moisture content	IS 6287: 1985 (RA 2010)	(0.5 g to 5.0 g)/100 g
		Reducing Sugar	IS 6287: 1985 (RA 2010)	(5 g to 35 g)/100 g
		Salt (as NaCl)	DRDC/AD/STP/003, (07.03.2007, Rev 00)	(1.0 g to 5 g)/100 g

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5.	Honey	Specific Gravity at 25 °C	IS 4941: 1994 (RA 2008)	1.1 to 1.5
		Moisture content	IS 4941: 2008	(15 g to 25 g)/100 g
		Glucose	DRDC/AD/STP/018, (27.11.2014, Rev 01)	(5.0 g to 50 g)/100 g
		Fructose	DRDC/AD/STP/018, (27.11.2014, Rev 01)	(5.0 g to 50 g)/100g
		Fiehe's test	IS 4941: 2008	Qualitative
		Sucrose	DRDC/AD/STP/018, (27.11.2014, Rev 01) IS 4941: 2011	(2.0 g to 50 g)/100 ml
		Hydroxy methyl furfural (HMF)	IS 4941: 1994 (RA 2008) IHC, 5.1: 2009	5 mg/kg to 600 mg/kg
		Energy	As per National Institute of Nutrition, page No 9 (Difference method)	(100 Kcal to 360 Kcal)/100 g
		Protein	IS 7219: 1973 (RA 2011)	(0.5 g to 10 g)/100 g
		Fat	AOAC (18 th Edition) 996.06	(0.1 g to 1 g)/100 g
	Carbohydrates	As per National Institute of Nutrition, page No 9 (Difference method)	(1 g to 90 g)/100 g	
6.	Cereal products (Protein rich cereal base food, Corn flour)	Energy	As per National Institute of Nutrition, page No 9 (Difference method)	(100 KCal to 400 KCal)/100 g

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	Cereal products (Protein rich cereal base food, Corn flour)	Carbohydrate	As per National Institute of Nutrition, page No 9 (Difference method)	(50 g to 100 g)/100 g
		Moisture content	IS 4333 (Part 2): 1996 (RA 2012) IS 1005 (RA 2005) IS 1656: 2007 (RA 2012)	(1.0 g to 10 g)/100 g
		Ash	IS 1005 (RA 2012) IS 1656: 2007 (RA 2012)	(0.5 g to 3.0 g)/100 g
		Protein	IS 7219: 1973 (RA 2011)	(0.5 g to 50 g)/100 g
		Fat	IS 1656: 2007 (RA 2012)	(0.2 g to 2.0 g)/100 g
7.	Others (Rose syrup, sugar based Sharbat)	Total Soluble Solids	FSSAI Lab Manual-5,2012	1.0 ° to 90 ° Brix
		Acidity (as anhydrous Citric acid)	DRDC/AD/STP/003 (07.03.2007, Rev 00)	(0.1 g to 3 g)/100 g
		pH	DRDC/AD/STP/001, (15.05.2001, Rev 01)	2 to 12
		Energy	As per National Institute of Nutrition, page No 9 (Difference method)	(40 KCal to 360 Kcal)/100 g
		Carbohydrate	As per National Institute of Nutrition, page No 9 (Difference method)	(1 g to 90 g)/100 g
		Fat	AOAC (18 th Edition) 996.06	(0.2 g to 1 g)/100 g
		Protein	IS 7219: 1973 (RA 2011)	(0.5 g to 1 g)/100 g

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	Others (Rose syrup, sugar based Sharbat)	Carmosine	DRDC/AD/STP/014, (27.07.2012, Rev 00)	20 mg/kg to 100 mg/kg
8.	Glucose based beverage mix Glucose D powder, Glucose C powder	Loss on Drying	IS 874: 1992 (RA 1997)	(2.0 g to 10 g)/100 g
		Glucose monohydrate	IS 874: 1992 (RA 1997) DRDC/AD/STP/019, (24.07.2012, Rev 00)	(50 g to 100 g)/100 g
		Vitamin D3	DRDC/AD/STP/020, (24.07.2012, Rev 00)	0.1 mg/kg to 100 mg/kg
		Vitamin C	DRDC/AD/STP/006, (24.07.2012, Rev 00)	(10 mg to 300 mg)/100 g
		Phosphorous	DRDC/AD/STP/019, (24.07.2012, Rev 00)	(20 mg to 200 mg)/100 g
		Energy	As per National Institute of Nutrition, page No 9 (Difference method)	(100 KCal to 400 KCal)/100 g
		Carbohydrate	As per National Institute of Nutrition, page No 9 (Difference method)	(25 g to 100 g)/100 g
		Fat	AOAC (18 th Edition) 996.06	(0.2 g to 1.0 g)/100 g
		Protein	IS 7219: 1973 (RA 2011)	(0.5 g to 10 g)/100 g

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9.	Metals (Fruits & fruit products, vegetable products, sauces and concentrates, sugar based products, Honey, Cereal products, Glucose based beverage mix)	Sodium	DRDC/AD/STP/011, (24.06.2012, Rev 00)	100 mg/kg to 5000 mg/kg
		Potassium	DRDC/AD/STP/011, (24.0.2012, Rev 00)	100 mg/kg to 5000 mg/kg
		Calcium	DRDC/AD/STP/011, (24.06.2012, Rev 00)	5 mg/kg to 2000 mg/kg
		Magnesium	DRDC/AD/STP/011, (24.06.2012, Rev 00)	5.0 mg/kg to 1000 mg/kg
		Iron	DRDC/AD/STP/011, (24.06.2012, Rev 00)	0.2 mg/kg to 100 mg/kg
		Manganese	DRDC/AD/STP/011, (24.06.2012, Rev 00)	5.0 mg/kg to 1000 mg/kg
		Nickel	DRDC/AD/STP/011, (24.06.2012, Rev 00)	0.2 mg/kg to 100 mg/kg
		Chromium	DRDC/AD/STP/011, (24.06.2012, Rev 00)	0.2 mg/kg to 100 mg/kg
		Lead	DRDC/AD/STP/012, (24.06.2012, Rev 00)	0.2 mg/kg to 10.0 mg/kg
		Cadmium	DRDC/AD/STP/012, (24.06.2012, Rev 00)	0.2 mg/kg to 5.0 mg/kg
		Mercury	DRDC/AD/STP/012, (24.06.2012, Rev 00)	0.2 mg/kg to 5.0 mg/kg
Arsenic	DRDC/AD/STP/012, (24.06.2012, Rev 00)	0.2 mg/kg to 5.0 mg/kg		

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	Metals (Fruits & fruit products, vegetable products, sauces and concentrates, sugar based products, Honey, Cereal products, Glucose based beverage mix)	Copper	DRDC/AD/STP/012, (24.06.2012, Rev 00)	0.2 mg/kg to 100.0 mg/kg
		Zinc	DRDC/AD/STP/012, (24.06.2012, Rev 00)	0.2 mg/kg to 50.0 mg/kg
		Tin	DRDC/AD/STP/012, (24.06.2012, Rev 00)	0.2 mg/kg to 250.0 mg/kg

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