

Laboratory **Dabur Research & Development Centre (Analytical Division), Plot No. 22, Site-IV, Sahibabad, Ghaziabad, Uttar Pradesh**

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

Certificate Number **TC-5993 (in lieu of T-2525 & T-2524)**

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Validity **28.05.2017 to 27.05.2019**

Last Amended on **11.07.2017**

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**

<b>I.</b>	<b>FOOD &amp; AGRICULTURAL PRODUCTS</b>			
<b>1.</b>	<b>Fruit &amp; Vegetable Products</b>			
<b>a.</b>	<b>Juices, Fruit Yoghurt Drink</b>	Total Plate Count	IS 5402:2012 (RA 2012)	≥1 cfu/ml
<b>b.</b>	<b>Ready to Serve Fruit Beverages, Fruit Juices, Vegetable Juices, Drinks &amp; Fruit Yoghurt Drinks</b>	Yeast and Mould count	IS 5403:1999 (RA 2009)	≥1 cfu/ml
		Salmonella species	IS 5887 (Part 3): 1999 (RA 2009)	Present/Absent (in 25ml)
		Escherichia coli	IS 5887 (Part 1): 1976 (RA 2013)	Present/Absent (in 25ml)
		Pseudomonas aeruginosa	IS 13428:2005, Annex D (RA 2014)	Present/Absent (in 25ml)
		Staphylococcus aureus	IS 5887 (Part 2): 1976 (RA 2009)	Present/Absent (in 25ml)
		Shigella	IS 5887 (Part 7): 1999 (RA 2013)	Present/Absent (in 25ml)
		Coliform Count	IS 5401 (Part 2): 2012 (RA 2012)	Present/Absent (in 100ml)
<b>2.</b>	<b>Spices, Condiments &amp; Spice Products</b>			
<b>a.</b>	<b>Ginger Paste, Garlic Paste, Ginger Garlic Paste, Bhuna Masala, Tamarind Paste</b>	Total Plate Count	IS 5402:2012 (RA 2012)	≥10 cfu/g
		Yeast and Mould count	IS 5403:1999 (RA 2009)	≥10 cfu/g
		Salmonella species	IS 5887 (Part 3): 1999 (RA 2009)	Present/Absent (/25g)
		Escherichia coli	IS 5887 (Part 1): 1976 (RA 2013)	Present/Absent (/25g)
		Pseudomonas aeruginosa	IS 13428:2005 Annex D (RA 2014)	Present/Absent (/25g)
		Staphylococcus aureus	IS 5887 (Part 2): 1976 (RA 2009)	Present/Absent (/25g)

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		Shigella	IS 5887 (Part 7): 1999 (RA 2013)	Present/Absent (in 25ml)
<b>3.</b>	<b>Sauces &amp; Concentrates</b>			
<b>a.</b>	<b>Tomato Puree, Red Pepper Sauce, Tomato Ketchup, Snacks Dressing</b>	Total Plate Count	IS 5402:2012 (RA 2012)	≥10 cfu/g
		Yeast and Mould count	IS 5403:1999 (RA 2009)	≥10 cfu/g
		Salmonella species	IS 5887 (Part 3): 1999 (RA 2009)	Present/Absent (25g)
		Escherichia coli	IS 5887 (Part 1): 1976 (RA 2013)	Present/Absent (25g)
		Pseudomonas aeruginosa	IS 13428:2005 Annex D (RA 2014)	Present/Absent (25g)
		Staphylococcus aureus	IS 5887 (Part 2): 1976 (RA 2009)	Present/Absent (25g)
		Shigella	IS 5887 (Part 7): 1999 (RA 2013)	Present/Absent (in 25ml)
<b>4.</b>	<b>Sugar Based Products</b>			
<b>a.</b>	<b>Hard Boil Sugar Confectionary, Sugar Candy</b>	Total Plate Count	IS 5402:2012 (RA 2012)	≥10 cfu/g
		Yeast and Mould count	IS 5403:1999 (RA 2009)	≥10 cfu/g
		Mould count	IS 5403:1999 (RA 2009)	Present/Absent (25g)
		Salmonella species	IS 5887 (Part 3): 1999 (RA 2009)	Present/Absent (25g)
		Escherichia coli	IS 5887 (Part 1): 1976 (RA 2013)	Present/Absent (25g)
		Pseudomonas aeruginosa	IS 13428:2005 Annex D (RA 2014)	Present/Absent (25g)
		Staphylococcus aureus	IS 5887 (Part 2): 1976 (RA 2009)	Present/Absent (25g)
<b>5.</b>	<b>Cereal products</b>			
<b>a.</b>	<b>Protein Rich Cereal Base Food, Corn Flour</b>	Total Plate Count	IS 5402:2012 (RA 2012)	≥10 cfu/g
		Yeast and Mould count	IS 5403:1999 (RA 2009)	≥10 cfu/g
		Salmonella species	IS 5887 (Part 3): 1999 (RA 2009)	Present/Absent (25g)

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		Escherichia coli	IS 5887 (Part 1): 1976 (RA 2013)	Present/Absent (25g)
		Pseudomonas aeruginosa	IS 13428:2005 Annex D (RA 2014)	Present/Absent (25g)
		Staphylococcus aureus	IS 5887 (Part 2): 1976 (RA 2009)	Present/Absent (25g)
<b>6.</b>	<b>Glucose Based Beverage Mix</b>			
<b>a.</b>	<b>Glucose D Powder, Glucose C Powder</b>	Total Plate Count	IS 5402:2012 (RA 2012)	≥10 cfu/g
		Yeast and Mould count	IS 5403:1999 (RA 2009)	≥10 cfu/g
		Salmonella species	IS 5887 (Part 3): 1999 (RA 2009)	Present/Absent (25g)
		Escherichia coli	IS 5887 (Part 1): 1976 (RA 2013)	Present/Absent (25g)
		Pseudomonas aeruginosa	IS 13428:2005 Annex D (RA 2014)	Present/Absent (25g)
		Staphylococcus aureus	IS 5887 (Part 2): 1976 (RA 2009)	Present/Absent (25g)

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**CHEMICAL TESTING**

I.	FOOD & AGRICULTURAL PRODUCTS			
1.	Fruits and Vegetable products			
a.	Juices, Fruit Yoghurt Drink	Total Soluble Solids	FSSAI Manual 2016 Clause 1.6, IS 13815:2009 (RA 2015)	0.5 to 30 °Brix
		pH	FSSAI manual 2016 Clause 2.3, DRDC/AD/STP/001, Issue no. 02, Issue date 10/08/2016	2 to 10
		Specific gravity at 25°C	DRDC/AD/STP/002, Issue no. 02, Issue date 11/08/2016 IS4941:1994 (RA 2008)	0.8 to 1.5
		Acidity	FSSAI manual 2016 Clause 2.4, DRDC/AD/STP/003, Issue no. 02, Issue date 14/03/2017	0.1 g/100g to 3 g/100g
		Anthocyanin	DRDC/AD/STP/004, Issue no. 01, Issue date 26/07/2017	0.2 mg/100ml to 30 mg/100ml
		Fat	AOAC996.06 (20 <sup>th</sup> Edi.2016) IS11721:2013	0.2 g/100g to 15 g/100g
		Protein	IS 7219: 1973 (RA 2010)	0.5 g/100g to 10 g/100g
		Total Ash	IS4941:1994 (RA 2008)	0.1 g/100g to 10 g/100g
		Total solids	IS 12333:1997 (RA 2003)	1 g/100g to 30 g/100g
		Carbohydrate	DRDC/AD/STP/028, Issue no. 00, Issue date 18/07/2017	1 g/100g to 30 g/100g

Bhumi Rajyaguru  
Convenor

N. Venkateswaran  
Program Director

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		Energy	DRDC/AD/STP/028, Issue no. 00, Issue date 18/07/2017.	4 to 200 K.Cal/100 g
		Total Reducing Sugar	FSSAI manual 2016 Clause 2.6	1 g/100ml to 30 g/100ml
		Vitamin A	DRDC/AD/STP/005, Issue no. 01, Issue date 24/07/2016.	1 mg/litre to 1000 mg/litre
		Vitamin E	DRDC/AD/STP/005, Issue no. 01, Issue date 24/07/2016.	5 mg/litre to 1000 mg/litre
		Vitamin C	DRDC/AD/STP/006, Issue no. 01, Issue date 24/07/2016.	1 mg/100ml to 300 mg/100ml
		Resistant maltodextrin	DRDC/AD/STP/007 Issue no. 01, Issue date 24/07/2016.	0.5 g/100ml to 10 g/100ml
		Total Dietary Fibre	AOAC 985.29, (20 <sup>th</sup> Edi 2016) DRDC/AD/STP/008, Issue no. 01, Issue date 24/07/2016.	0.5 g/100ml to 10 g/100ml
		Beta carotene	DRDC/AD/STP/009, Issue no. 01, Issue date 24/07/2016.	5 mg/liter to 100 mg/liter
		Added sugar	FSSAI manual 2016 Clause 2.6, DRDC/AD/STP/027 Issue no. 00, Issue date 07/11/2016.	2 g/100ml to 20 g/100ml
		Cholesterol	DRDC/AD/STP/010 Issue no. 01, Issue date 24/07/2016	20 mg/liter to 400 mg/liter

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<b>2.</b>	<b>Spices and Condiments &amp; Spice Products</b>			
<b>a.</b>	<b>Ginger Paste, Garlic Paste, Ginger-Garlic</b>	Total Reducing Sugar	FSSAI manual 2016 Clause 2.6	4 g/100g to 40 g/100 g
		Energy	DRDC/AD/STP/028, Issue no. 00, Issue date 18/07/2017	4 KCal/100 g to 200 KCal/100 g
		Carbohydrate	DRDC/AD/STP/028, Issue no. 00, Issue date 18/07/2017	1 g/100g to 40 g/100g
		Fat	AOAC996.06, (20 <sup>th</sup> Edi.2016)	0.2 g/100g to 25 g/100g
		Protein	IS 7219:1973 (RA 2010)	0.5 g/100g to 20 g/100g
		Salts (as sodium chloride)	FSSAI manual 2016 Clause 1.7, DRDC/AD/STP/003, Issue no. 02, Issue date 14/03/2017	1 g/100g to 20 g/100g
		Acidity	FSSAI manual 2016 Clause 2.4	0.1 g/100g to 6 g/100g
		pH	FSSAI manual 2016 Clause 2.3	2 to10
		Total soluble solids	FSSAI manual 2016 Clause 1.6, IS 13815:2009	5 to 40 °brix
		Sodium benzoate	DRDC/AD/STP/013, Issue no. 01, Issue date 05/04/2016	50 mg/kg to 3000 mg/kg
<b>3.</b>	<b>Sauces&amp; Concentrates</b>			
<b>a.</b>	<b>Tomato Puree, Red Peppersauce, Tomatoketch-Up, Snacks Dressings</b>	Energy	DRDC/AD/STP/028, Issue no. 00, Issue date 18/07/2017	20 KCal/100 g to 300 KCal/100 g
		Carbohydrate	DRDC/AD/STP/028, Issue no. 00, Issue date 18/07/2017	5 g/100g to 70 g/100g

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		Fat	AOAC996.06 (20 <sup>th</sup> Edi.2016)	0.2 g/100g to 30 g/100g
		Protein	IS 7219:1973 (RA 2010)	0.5 g/100g to 20 g/100g
		Salts (as sodium chloride)	FSSAI manual 2016 Clause 1.7, DRDC/AD/STP/003, Issue no. 02, Issue date 14/03/2017	1 to 10 g/100g
		Acidity	FSSAI manual 2016 Clause 2.4, DRDC/AD/STP/003, Issue no. 02, Issue date 14/03/2017	0.3 g/100g to 10 g/100g
		pH	FSSAI manual 2016 Clause 2.3, DRDC/AD/STP/001 Issue no. 02, Issue date 10/08/2016	2 to 10
		Total soluble solids	FSSAI manual 2016 Clause 1.6, IS 13815:2009.	2 to 70 °Brix
		Sodium benzoate	DRDC/AD/STP/013, Issue no. 01, Issue date 05/04/2016	50 mg to 3000 mg /kg
		Weight per ml at 25°C	DRDC/AD/STP/002, Issue no. 02, Issue date 11/08/2016	1 g/ml to 2.0 g/ml
		Capsaicin Content	DRDC/AD/STP/017, Issue no. 01, Issue date 16/01/2016	20 mg/kg to 500 mg/kg
<b>4.</b>	<b>Sugar Based Products</b>			
<b>a.</b>	<b>Hard Boil Sugar Confectionary, Sugar Candy</b>	Average wt.	IP 2016	1.5 g/Candy to 3.0 g/Candy
		Acidity (as anhydrous citric acid)	FSSAI manual 2016 Clause 2.4, DRDC/AD/STP/003, Issue no. 02, Issue date 14/03/2017	0.1 g/100 g to 3.0 g/100 g

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		Moisture content	IS 6287:1985 (RA 2015)	0.5 g/100 g to 5.0 g/100 g
		Reducing Sugar	IS 6287:1985 (RA 2015)	5 g/100 g to 35 g/100 g
		Salt (as NaCl)	FSSAI manual 2016 Clause 1.7, DRDC/AD/STP/003, Issue no. 02, Issue date 14/03/2017	1 g/100g to 5 g/100g
5.	Honey	Specific Gravity at 25°C	DRDC/AD/STP/002, Issue no. 02, Issue date 11/08/2016. IS4941:1994 (RA 2008)	1.1 to 1.5
		Moisture content	IS 4941:1994 (RA 2008)	15 g/100g to 25 g/100g
		Glucose	AOAC 977.20 (20 <sup>th</sup> Edi.2016) DRDC/AD/STP/018, Issue no. 01, Issue date 27/11/2014	5 g/100g to 50 g/100g
		Fructose	AOAC 977.20 (20 <sup>th</sup> Edi.2016) DRDC/AD/STP/018, Issue no. 01, Issue date 27/11/2014.	5 g/100g to 50 g/100g
		Fiehe's test	IS 4941:2008	Qualitative
		Sucrose	DRDC/AD/STP/018, IS 4941:2008, Issue no. 01, Issue date 27/11/2014.	2.0 g/100g to 50 g/100g
		Hydroxy methyl furfural (HMF)	IS4941:1994 (RA 2008)	5 to 600mg/kg
		Energy	DRDC/AD/STP/028, Issue no. 00, Issue date 18/07/2017	100 KCal/100g to 360 KCal/100 g
		Protein	IS 7219:1973 (RA 2010)	0.5 g/100g to 10 g/100g
		Fat	AOAC996.06 (20 <sup>th</sup> Edi.2016)	0.2 to 1 g/100g
		Carbohydrates	DRDC/AD/STP/028, Issue no. 00, Issue date 18/07/2017	1 to 90 g/100g



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<b>6.</b>	<b>Cereal Products</b>			
<b>a.</b>	<b>Protein Rich Cereal Base Food, Corn Flour</b>	Energy	DRDC/AD/STP/028, Issue no. 00, Issue date 18/07/2017	100 KCal/100g to 400 KCal/100g
		Carbohydrate	DRDC/AD/STP/028, Issue no. 00, Issue date 18/07/2017	50 g/100g to 100 g/100g
		Moisture content	IS 4333 (Part 2): 1996 (RA 2012) IS 1005 (RA 2013) 1656:2007 (RA 2012)	1 g/100 g to 10 g/100 g
		Ash	IS 1005 (RA 2013) IS 1656: 2007 (RA 2012), IS 14433	0.5 g/100g to 3.0 g/100g
		Protein	IS 7219:1973 (RA 2011)	0.5 g/100g to 50 g/100g
		Fat	IS 1656:2007(RA 2012)	0.2 g/100g to 2.0 g/100g
<b>7.</b>	<b>Rose syrup,sugar based Sharbat</b>	Total Soluble Solids	FSSAI manual 2016 Clause 1.6, DRDC/AD/STP/021, Issue no. 00, Issue date 01/05/2014.	1.0 °Brix to 90 °Brix
		Acidity (as anhydrous Citric acid)	FSSAI manual 2016 Clause 2.4, DRDC/AD/STP/003, Issue no. 02, Issue date 14/03/2017	0.1 g/100g to 3 g/100g
		pH	FSSAI manual 2016 Clause 2.3, DRDC/AD/STP/001, Issue no. 02, Issue date 10/08/2016.	2 to 12
		Energy	DRDC/AD/STP/028, Issue no. 00, Issue date 18/07/2017.	40 KCal/100 g to 360 KCal/100 g
		Carbohydrate	DRDC/AD/STP/028, Issue no. 00, Issue date 18/07/2017.	1 g/100g to 90 g/100g
		Fat	AOAC996.06 (20 <sup>th</sup> Edi.2016)	0.2 g/100g to 1 g/100g
		Protein	IS 7219:1973 (RA 2010)	0.5 g/100g to 1 g/100g

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		Carmosine	DRDC/AD/STP/014, Issue no. 01, Issue date 26/07/2017	20 mg/kg to 100 mg/kg
8.	<b>Glucose Based Beverage Mix Glucose D Powder, Glucose C Powder</b>	Loss on Drying	IS 874:1992 (RA 2013)	2 g/100 g to 10 g/100 g
		Glucose monohydrate	IS 874: 1992 (RA 2013) DRDC/AD/STP/019, Issue no. 01, Issue date 24/07/2016	50 g/100 g to 100 g/100 g
		Vitamin D3	DRDC/AD/STP/020, Issue no. 01, Issue date 24/07/2016	0.075 mg/kg to 100 mg/kg
		Vitamin C	DRDC/AD/STP/006, Issue no. 01, Issue date 24/07/2016	10 mg/100g to 300 mg/100g
		Phosphorous	DRDC/AD/STP/019, Issue no. 01, Issue date 24/07/2016	20 mg/100g to 200 mg/100g
		Energy	DRDC/AD/STP/028, Issue no. 00, Issue date 18/07/2017	100 KCal/100 g to 400 KCal/100 g
		Carbohydrate	DRDC/AD/STP/028, Issue no. 00, Issue date 18/07/2017	25 g/100g to 100 g/100g
		Fat	AOAC996.06 (20 <sup>th</sup> Edi.2016)	0.2 g/100g to 1 .0 g/100g
		Protein	IS 7219:1973 (RA 2010)	0.5 to 10g/100g
9.	<b>(Fruits &amp; Fruit Products, Vegetable Products, Sauces and Concentrates, Sugar Based Products, Honey, Cereal Products, Glucose Based</b>	Sodium	DRDC/AD/STP/011, Issue no. 01, Issue date 24/07/2016	0.5 mg/kg to 5000 mg/kg
		Potassium	DRDC/AD/STP/011, Issue no. 01, Issue date 24/07/2016	0.5 mg/kg to 5000 mg/kg
		Calcium	DRDC/AD/STP/011, Issue no. 01, Issue date 24/07/2016	0.5 mg/kg to 2000 mg/kg

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	Beverage Mix)	Magnesium	DRDC/AD/STP/011, Issue no. 01, Issue date 24/07/2016	0.5 mg/kg to 1000 mg/kg
		Iron	DRDC/AD/STP/011, Issue no. 01, Issue date 24/07/2016	0.2 mg/kg to 100 mg/kg
		Manganese	DRDC/AD/STP/011, Issue no. 01, Issue date 24/07/2016	0.2 mg/kg to 100 mg/kg
		Nickel	DRDC/AD/STP/011, Issue no. 01, Issue date 24/07/2016	0.2 mg/kg to 100 mg/kg
		Chromium	DRDC/AD/STP/011, Issue no. 01, Issue date 24/07/2016	0.2 mg/kg to 100 mg/kg
		Lead	DRDC/AD/STP/026, Issue no. 01, Issue date 22/11/2016	0.05 mg/kg to 10.0 mg/kg
		Cadmium	DRDC/AD/STP/012, Issue no. 02, Issue date 22/11/2016	0.2 mg/kg to 5.0 mg/kg
		Mercury	DRDC/AD/STP/012, Issue no. 02, Issue date 22/11/2016	0.2 mg/kg to 5.0 mg/kg
		Arsenic	DRDC/AD/STP/012, Issue no. 02, Issue date 22/11/2016	0.2 mg/kg to 5.0 mg/kg
		Copper	DRDC/AD/STP/012, Issue no. 02, Issue date 22/11/2016	0.2 mg/kg to 100.0 mg/kg
	Zinc	DRDC/AD/STP/012, Issue no. 02, Issue date 22/11/2016	0.2 mg/kg to 50.0 mg/kg	

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		Tin	DRDC/AD/STP/012, Issue no. 02, Issue date 22/11/2016	0.2 mg/kg to 250.0 mg/kg

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