

Laboratory **Excellent Bio Research Solutions Pvt. Ltd., 1042, 4th Bridge, Napier Town, Jabalpur, Madhya Pradesh**

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

Certificate Number **TC-5775**

Page 1 of 19

Validity **06.09.2018 to 05.09.2020**

Last Amended on --

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. FOOD &amp; AGRICULTURAL PRODUCTS</b>				
<b>1.</b>	<b>Herbs, Spices and Condiments</b>	Total Plate Count	IS 5402	≥10 cfu/g
		Yeast & Mould count	IS 5403	≥ 10 cfu/g
		Total Coliform count	IS 5401 (Part-I) IS 5401 (Part-II)	≥10 cfu/g
		E.coli	IS 5887 (Part-I)	Present or absent /g
		Bacillus cereus	IS5887(VI)	≥ 10 cfu/g
		Shigella	IS 5887 (Part-VII)	Present or absent / 25 g
		Staphylococcus aureus	IS 5887 (Part-II)	Present or absent / 1.0g
<b>2.</b>	<b>Beverages (Alcoholic/Non Alcoholic)</b>	Listeria monocytogenes	IS 14988 (Part I)	Present or absent / 25 g
		Total Plate Count	IS 5402	≥ 1 cfu/ml
		Yeast & Mould count	IS 5403	≥ 1 cfu/ml
		Total Coliform count	IS 5401 (Part-I) IS 5401 (Part-II)	≥ 1 cfu/ml, Present or absent/100 ml
		E.coli	IS 5887 (Part-I)	Present or absent / 25 ml
		Bacillus cereus	IS 5887(Part-VI)	Present or absent /g
		Shigella	IS 5887 (Part-VII)	Present or absent / 25 ml
		Staphylococcus aureus	IS 5887 (Part-II)	Present or absent / 25 ml
		Listeria monocytogenes	IS 14988 (Part- I)	Present or absent / 25 ml
		<b>3.</b>	<b>Jams, Juices, Sauces &amp; Concentrates</b>	Total Plate Count
Yeast & Mould count	IS 5403			≥ 10 cfu /g
Total Coliform count	IS 5401 (Part-I) IS 5401(Part-II)			≥ 10 cfu /g, ≥ 1cfu/ml
Flat sour / sulphide spoilage organism	FSSAI manual			Present/absent/ g, ≥ 10 cfu /g
E.coli	IS 5887 (Part-I)			Present or absent /g
Bacillus cereus	IS 5887(Part-VI)			≥ 10 cfu /g
Shigella	IS 5887 (Part-VII)			Present or absent /25 g
Staphylococcus aureus	IS 5887 (Part-II)			Present or absent /1.0g
Listeria monocytogenes	IS 14988 (Part-I)			Present or absent / 25 g

Laboratory **Excellent Bio Research Solutions Pvt. Ltd., 1042, 4th Bridge, Napier Town, Jabalpur, Madhya Pradesh**

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

Certificate Number **TC-5775**

Page 2 of 19

Validity **06.09.2018 to 05.09.2020**

Last Amended on --

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		Clostridium perfringens	IS 5887 (Part-IV)	Present / absent /g or ml, $\geq 10$ cfu /g
4.	Snacks and Instant Mixes	Total Plate Count	IS 5402	$\geq 10$ cfu /g
		Yeast & Mould count	IS 5403	$\geq 10$ cfu /g
		Total Coliform count	IS 5401	$\geq 10$ cfu /g
		E.coli	IS 5887 (Part-I) IS 5401 (Part-II)	Present or absent /g
		Bacillus cereus	IS 5887(Part-VI)	$\geq 10$ cfu /g
		Shigella	IS 5887 (Part-VII)	Present or absent /25 g
		Staphylococcus aureus	IS 5887 (Part-II)	Present or absent / 1.0g
		Listeria monocytogenes	IS 14988 (Part-I)	Present or absent / 25 g
		Clostridium perfringenes	IS 5887 (Part-IV)	Present / absent /g or ml, $\geq 10$ cfu /g
5.	Bakery and Confectionary Products	Total Plate Count	IS 5402	$\geq 10$ cfu /g
		Yeast & Mould count	IS 5403	$\geq 10$ cfu /g
		Total Coliform count	IS 5401 (Part-I) IS 5401 (Part-II)	$\geq 10$ cfu /g
		E.coli	IS 5887 (Part-I)	Present or absent /g
		Bacillus cereus	IS 5887(Part-VI)	$\geq 10$ cfu /g
		Shigella	IS 5887 (Part-VII)	Present or absent /25 g
		Staphylococcus aureus	IS 5887 (Part-II)	Present or absent / 1.0g
		Listeria monocytogenes	IS 14988 (Part I)	Present or absent / 25 g
6.	Nuts and Nuts Products	Total Plate Count	IS 5402	$\geq 10$ cfu /g
		Yeast & Mould	IS 5403	$\geq 10$ cfu /g
		Total Coliform count	IS 5401 (Part-I) IS 5401 (Part-II)	$\geq 10$ cfu /g
		E.coli	IS 5887 (Part-I)	Present or absent /g
		Bacillus cereus	IS 5887(Part-VI)	$\geq 10$ cfu /g
		Shigella	IS 5887 (Part-VII)	Present or absent /25 g
		Staphylococcus aureus	IS 5887 (Part-II)	Present or absent / 1.0g
		Listeria monocytogenes	IS14988 (Part-I)	Present or absent / 25 g
7.	Milk and Dairy Products	Total Plate Count	IS 5402	$\geq 10$ cfu /g
		Yeast & Mould count	IS 5403	$\geq 10$ cfu/g

Laboratory **Excellent Bio Research Solutions Pvt. Ltd., 1042, 4th Bridge, Napier Town, Jabalpur, Madhya Pradesh**

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

Certificate Number **TC-5775**

Page 3 of 19

Validity **06.09.2018 to 05.09.2020**

Last Amended on --

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		Total Coliform count	IS 5401 (Part-I) IS 5401 (Part-II)	≥ 10 cfu/g, ≥ 1 cfu/ml
		E.coli	IS 5887 (Part-I)	Present or absent/g or ml
		Bacillus cereus	IS 5887(Part-VI)	≥ 10 cfu/g, ≥ 1 cfu/ml
		Shigella	IS 5887 (Part-VII)	Present or absent / 25 g or ml
		Staphylococcus aureus	IS 5887 (Part-II)	Present or absent / 1.0g
		Listeria monocytogenes	IS 14988 (Part-I)	Present or absent /g or ml
		Clostridium perfringens	IS 5887(Part-4)	Present or absent /g or ml, ≥10 cfu/g or ml
		Lactic acid bacteria (Mesophilic)	IS 16068	≥ 10 cfu /g, ≥ 1 cfu/ml
<b>8.</b>	<b>Canned and Processed Foods</b>	Total Plate Count	IS 5402	≥ 10 cfu /g
		Yeast & Mould count	IS 5403	≥ 10 cfu/g
		Total Coliform count	IS 5401 (Part-I) IS 5401 (Part II)	≥ 10 cfu/g
		E.coli	IS 5887 (Part-I)	Present or absent/g
		Bacillus cereus	IS 5887 (Part-VI)	≥ 10 cfu/g
		Shigella	IS 5887 (Part-VII)	Present or absent /25 g
		Staphylococcus aureus	IS 5887 (Part-II)	Present or absent / 1.0g
		Clostridium perfringenes	IS 5887 (Part-IV )	Present or absent/g
		Listeria monocytogenes	IS 14988 (Part-I)	Present or absent /g/25 g
		Incubation test at 37°C for 10 days and 55° C for 7days	IS 2860	Microbial activity (Present/absent)
		Flat sour organism	FSSAI manual	Present / absent g / 100 g, ≥ 10 cfu/g
<b>9.</b>	<b>Food Additives and Preservatives</b>	Total plate count	IS 5402	≥ 10 cfu /g
		Yeast and mould count	IS 5403	≥10 cfu /g
		Total Coliform count	IS 5401(Part-I) IS 5401 (Part-II)	≥ 10 cfu /g
		E.coli	IS 5887 (Part-I)	Present or absent/g
		Shigella	IS 5887 (Part-VII)	Present or absent/25g

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

Certificate Number **TC-5775**

Page 4 of 19

Validity **06.09.2018 to 05.09.2020**

Last Amended on --

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10.	<b>Honey and Honey Products</b>	Total plate count	IS 5402 IS 5403	≥10 cfu /g ≥ 10 cfu /g
		Total Coliform count	IS 5401(Part-I)	≥10 cfu /g
		E.coli	IS 5887 (Part-I)	Present or absent/g
		Shigella	IS 5887 (Part-VII)	Present or absent/25g
11.	<b>Gelatin and Other Gums</b>	Total plate count	IS 5402	≥ 10 cfu /g
		Yeast and mould count	IS 5403	≥10 cfu /g
		Total Coliform count	IS 5401 (Part-I)	≥ 10 cfu /g
		E.coli	IS 5887 (Part-I)	Present or absent/g
12.	<b>Coffee and Cocoa Products</b>	Total plate count	IS 5402	≥ 10 cfu /g
		Yeast and mould count	IS 5403	≥10 cfu /g
		Total Coliform count	IS 5401 (Part-I)	≥ 10 cfu /g
		E.coli	IS 5887 (Part-I)	Present or absent/g
13.	<b>Egg and Egg/ Products</b>	Total plate count	IS 5402	≥ 10 cfu /g
		Yeast and mould count	IS 5403	≥10 cfu /g
		Total Coliform count	IS 5401 (Part-I)	≥ 10 cfu /g
		E.coli	IS 5887 (Part-I)	Present or absent/g
14.	<b>Meat and Meat Products</b>	Total plate count	IS 5887 (Part-VII)	Present or absent/ 25g
		Aerobic plate count	FSSAI manual	≥ 10 cfu /g
		Staphylococcus aureus (coagulase positive)	FSSAI manual	Present or absent/1.0g, ≥ 10 cfu /g
		Yeast and mould count	FSSAI manual	≥ 10 cfu /g
		E.coli	FSSAI manual	Present or absent/g
		Listeria monocytogenes	FSSAI manual	Present or absent /g
15.	<b>Pet Foods</b>	Clostridium perfringenes / botulinum	FSSAI manual	Present or absent/g
		Total Plate Count	IS 5402	≥ 10 cfu /g
		Yeast & Mould count	IS 5403	≥ 10 cfu /g
		Total Coliform count	IS 5401 (Part-I) IS 5401 (Part-II)	≥ 10 cfu /g

**Nitin Gupta**  
Convenor

**Alok Jain**  
Program Manager

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Certificate Number **TC-5775**

Page 5 of 19

Validity **06.09.2018 to 05.09.2020**

Last Amended on --

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		E. coli	IS 5887 (Part-I)	Present or absent /g
		Bacillus cereus	IS5887(Part-VI)	≥10 cfu /g
		Staphylococcus aureus	IS 5887 (Part-II)	Present or absent / 1.0g
		Shigella	IS 5887 (Part-VII)	Present or absent /25 g
16.	Tea	Total plate count	IS 5402	≥ 10 cfu /g
		Yeast and mould count	IS 5403	≥10 cfu /g
		Total Coliform count	IS 5401 (Part-I)	≥ 10 cfu /g
		E.coli	IS 5887 (Part-I)	Present or absent/g
		Shigella	IS 5887 (Part-VII)	Present or absent/25g
17.	Poultry & Poultry Products	Total Plate Count	IS 5402	≥ 10 cfu /g
		Yeast & Mould count	IS 5403	≥ 10 cfu /g
		Total Coliform count	IS 5401 (Part-I) IS 5401 (Part-II)	≥ 10 cfu /g
		E. coli	IS 5887 (Part-I)	Present or absent /g
		Bacillus cereus	IS 5887(Part-VI)	≥10 cfu /g
		Staphylococcus aureus	IS 5887 (Part-II)	Present or absent / 1.0g
		Shigella	IS 5887 (Part-VII)	Present or absent /25 g
18.	Vegetables & Vegetables Products	Total Plate Count	IS 5402	≥ 10 cfu /g
		Yeast & Mould count	IS 5403	≥ 10 cfu /g
		Total Coliform count	IS 5401 (Part-I) IS 5401 (Part-II)	≥ 10 cfu /g
		E. coli	IS 5887 (Part-I)	Present or absent /g
		Bacillus cereus	IS 5887(Part-VI)	≥10 cfu /g
		Staphylococcus aureus	IS 5887 (Part-II)	Present or absent / 1.0g
		Shigella	IS 5887 (Part-VII)	Present or absent /25 g
II.	WATER			
1.	Packaged Drinking Water	Aerobic Microbial count at 37 °C & 22 °C	IS 5402	≥ 1 cfu/ml
		Total Coliform count	IS 5401 (Part-I)	≥ 1 cfu/ml
		E.coli	IS 15185	Present/ Absent/250ml
		Staphylococcus aureus	IS 5887 (Part-11)	Present/Absent/250ml



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

Certificate Number **TC-5775**

Page 7 of 19

Validity **06.09.2018 to 05.09.2020**

Last Amended on --

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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**CHEMICAL TESTING**

I.	<b>FOOD AND AGRICULTURAL PRODUCTS</b>			
1.	<b>Herbs, Spices and Condiments (Whole and Ground)</b>	Total Ash	IS1797	0.1g/100g -10.0 g/100 g
		Acid insoluble ash	IS1797	0.01g/100g -5.0 g/100 g
		Water insoluble ash	IS1797	0.01g/100g - 5.0 g/100 g
		Crude Fiber	IS1797	0.3g/100g-25.0 g/100 g
		Non Volatile Ether Extract	IS1797	0.1g/100g - 25.0 g/100 g
		Protein (N x 6.38)	IS7219	0.2g/100g-20.0 g/100 g
		Alcohol Soluble extract	IS1797	0.2g/100g - 50g/100 g
		Cold water Soluble extract	IS1797	0.2g/100g - 25 g/100 g
		Extraneous matter	IS1797	0.001g/100g-5g/100 g
		Mass per litre	IS1797	1 g/100g-50g/100 g
		Insect damaged matter	IS 2322	0.001 g/100g -5g/100 g
		Split fruits	IS 2443	1 g/100g -5g/100 g
		Discoloured fruits	IS 2443	1 g/100g -5g/100 g
		Starch	IS4706(P-II)	10 g/100g -50g/100 g
		Added colour & brick powder in Chilli powder	IS15642(P -I)	Qualitative (Positive/Negative)
	Exhausted/ deoiled cloves in sound cloves	IS15642(P -I)	Qualitative (Positive/Negative)	
	Chicory powder in coffee	IS15642(P-II)	Qualitative (Positive/Negative)	
	Papaya seeds in black pepper	IS15642(P-II)	Qualitative (Positive/Negative)	
	Common salt in iodized salt	IS15642(P-II)	Qualitative (Positive/Negative)	
	White powder in common salt	FSSAI Manual	Qualitative (Positive/Negative)	

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

Certificate Number **TC-5775**

Page 8 of 19

Validity **06.09.2018 to 05.09.2020**

Last Amended on --

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		Colored dried tendrils of maizecob in Saffron	FSSAI Manual	Qualitative (Positive/Negative)
<b>2.</b>	<b>Bakery &amp; Confectionery Products</b>	Moisture	IS 1011	0.2 g/100g - 5.0 g/100 g
		Acid Insoluble Ash	IS 1011	0.02 g/100g - 5g/100 g
		Acidity of the extracted fat (as oleic acid)	IS 1011	0.1 g/100g - 1.2 g/100 g
		Fat	IS 12711	0.5 g/100g -60g/100 g
		Total Protein (N x 6.25)	IS 7219	0.5 g/100g -50g/100 g
		Crude Fiber	IS 12711	0.2 g/100g - 10g/100 g
		Total Ash	IS 1011	0.2 g/100g - 15 g/100 g
		Total Sugar	IS 2650	1 g/100g -50g/100 g
		Alcoholic acidity as H <sub>2</sub> SO <sub>4</sub>	IS 12711	0.05 g/100g - 0.5 g/100 g
		Total solid content in bread	IS 12711	35 g/100g -75 g/100 g
	pH of the Bread	IS 12711	5.0-7.5	
<b>3a.</b>	<b>Cereal &amp; Cereal Products</b>	Foreign Matter	IS 4333(P-I)	0.01 g/100g -5g/100 g
		Broken Matter	IS 4333 (P-I)	0.01 g/100g -5g/100 g
		Insect infestation	IS 4333 (P-I)	0.01 g/100g -5g/100 g
		Impurities of animal origin	IS 4333 (P-I)	0.01 g/100g -5g/100 g
		Presence of rodent hair	IS 6261	Qualitative (Positive/Negative)
		Damaged grains	IS 4333 (P-I)	0.01 g/100g -5g/100 g
		Weeviled grains	IS 4333 (P-I)	1-10 (by count)
		Other edible grains	IS 4333 (P-I)	0.01 g/100g -5g/100 g
<b>3b.</b>	<b>Cereals, Pulses &amp; Cereal Products</b>	Crude fiber	IS 1155	0.2 g/100g -5g/100 g
		Fat	IS 12711	0.5 g/100g -60g/100 g
		Moisture	IS 1155	0.5 g/100g -14g/100 g
		Total Ash	IS 1155	0.2 g/100g -2g/100 g
		Acid insoluble ash (on dry basis)	IS 1155	0.01 g/100g -0.15g/100 g
		Gluten (on dry basis)	IS 1155	1.5 g/100g -10g/100 g



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

Certificate Number **TC-5775**

Page 9 of 19

Validity **06.09.2018 to 05.09.2020**

Last Amended on --

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		Alcoholic acidity as H <sub>2</sub> SO <sub>4</sub> in 90g/100 g alcohol	IS 1155	0.02 g/100g -0.5g/100 g
		Protein (on dry basis, N x 5.70)	IS 7219	0.5 g/100g -25g/100 g
		Keshri Dal (Lathyrus sativus) in besan	IS 2400	Present/Absent
		Alkalinity of Ash in Papad as sodium carbonate (on dry basis)	IS 2639	0.01 g/100g - 5.0 g/100 g
		pH of water extract in Papad	IS 2639	3-12
4.	<b>Snacks (Namkeen, Fried Potato Chips and Alu Bhujia etc.)</b>	Protein on dried basis (N x 6.25)	IS 7219	1 g/100g -15g/100 g
		Moisture	IS 15271	0.5 g/100g -14g/100 g
		Acid insoluble ash (on dry basis)	IS 15271	0.01 g/100g -0.2g/100 g
		Fat	IS 15271	1 g/100g -60g/100 g
		Acidity of extracted fat (as oleic acid)	IS 15271	0.1 g/100g -1.0g/100 g
		Total Ash	IS 15271	0.2 g/100g -15g/100 g
		Peroxide value	IS 15271	0.1 g/100g -50 meq / Kg
		Total Sugar	IS 2650	1 g/100g -50g/100 g
		Crude Fiber	IS 1155	1 g/100g -25g/100 g
5.	<b>Milk &amp; Dairy Products</b>			
a.	<b>Skimmed Milk Powder</b>	Crude Fiber	IS10226(P-1)	1 g/100g -25g/100 g
		Fat	FSSAI Manual	0.2 g/100g -1.5g/100 g
		Titrateable acidity (as lactic acid)	FSSAI Manual	0.01 g/100g -1.5g/100 g
		Total protein (N x 6.38)	FSSAI Manual	1 g/100g -50g/100 g
		Moisture	FSSAI Manual	0.1 g/100g -10g/100 g
		Total Ash	FSSAI Manual	0.5 g/100g -10g/100 g
		Solubility Index	FSSAI Manual	1ml -2ml
b.	<b>Liquid Milk</b>	Fat	FSSAI Manual	0.5 g/100g - 20g/100 g

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

**Certificate Number**        **TC-5775**

**Page 10 of 19**

**Validity**                         **06.09.2018 to 05.09.2020**

**Last Amended on --**

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		Titratable Acidity (as lactic acid per 100 ml of milk)	IS 1479 (Part I)	0.01 g/100g -1 g/100 g
		Starch	FSSAI Manual	Qualitative (Positive/Negative)
		Sugar	FSSAI Manual	Qualitative (Positive/Negative)
		Glucose-Dextrose	FSSAI Manual	Qualitative (Positive/Negative)
		Sodium Chloride	FSSAI Manual	Qualitative (Positive/Negative)
		Acidity and Heat Stability	FSSAI Manual	Qualitative (Positive/Negative)
		Hydrogen peroxide	FSSAI Manual	Qualitative (Positive/Negative)
		Formaldehyde	FSSAI Manual	Qualitative (Positive/Negative)
		Mastitis	FSSAI Manual	Qualitative (Positive/Negative)
		Detergent	FSSAI Manual	Qualitative (Positive/Negative)
		Protein	IS 1479 (P-II)	0.5 g/100g - 50g/100 g
		Water	FSSAI Manual	Qualitative (Positive/Negative)
		Vanaspati	FSSAI Manual	Qualitative (Positive/Negative)
		Milk solids not fat	IS 10083	2 g/100g -25g/100 g
		Total solids	IS 1479(P-II)	2 g/100g -25g/100 g
		Total Ash	IS 1479(P-II)	1 g/100g -5g/100 g
<b>c.</b>	<b>Cream/Malai or Cream Powder</b>	Fat	FSSAI Manual	0.5 g/100g -20g/100 g
		Moisture	FSSAI Manual	0.1 g/100g -10g/100 g
		Starch	FSSAI Manual	Qualitative (Positive/Negative)
		Protein	IS 1479 (Part-II)	0.5 g/100g - 50g/100 g

**Nitin Gupta**  
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Certificate Number **TC-5775**

Page 11 of 19

Validity **06.09.2018 to 05.09.2020**

Last Amended on --

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d.	<b>Curd/Dahi</b>	Fat	FSSAI Manual	0.5 g/100g -50g/100 g
		Milk solids not fat	FSSAI Manual	0.5 g/100g -50g/100 g
		Starch	FSSAI Manual	Qualitative (Positive/Negative)
		Added cane sugar	FSSAI Manual	Qualitative (Positive/Negative)
		Vanaspati	FSSAI Manual	Qualitative (Positive/Negative)
e.	<b>Butter, Ghee and Milk Fats</b>	Total solids	FSSAI Manual	2 g/100g -50 g/100 g
		Refractive index	FSSAI Manual	1.333-1.4895
		RM value	FSSAI Manual	1-50
		Peroxide value	FSSAI Manual	0.1meq/kg-50 meq/ kg
		Vegetable fat (Phytosterol acetate test)	FSSAI Manual	Qualitative (Positive/Negative)
		Sesame oil (Boudouins test)	FSSAI Manual	Qualitative (Positive/Negative)
		BR Reading	FSSAI Manual	0.0-50
		Presence of animal body fat	FSSAI Manual	Qualitative (Positive/Negative)
		Mashed Potatoes, Sweet Potatoes & other starches	FSSAI Manual	Qualitative (Positive/Negative)
		Moisture	FSSAI Manual	0.05 g/100g -5g/100 g
		Unsaponifiable matter (Free fatty acids as oleic acid)	FSSAI Manual	0.05 g/100g -3g/100 g
f.	<b>Chakka and Shrikhand</b>	Milk fat in butter	FSSAI Manual	0.5 g/100g -50g/100 g
		Common salt in butter	FSSAI Manual	0.5 g/100g -10g/100 g
		Total solids	FSSAI Manual	2 g/100g -60g/100 g
		Milk fat (on dry basis)	FSSAI Manual	0.5 g/100g -50g/100 g
		Milk Protein (on dry basis) (NX6.38)	FSSAI Manual	0.5 g/100g -40g/100 g

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

Certificate Number **TC-5775**

Page 12 of 19

Validity **06.09.2018 to 05.09.2020**

Last Amended on --

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Titrateable acidity (as lactic acid)	FSSAI Manual	0.01 g/100g -2g/100 g
		Total ash (on dry basis)	FSSAI Manual	0.05 g/100g -10g/100 g
<b>g.</b>	<b>Yogurt</b>	Milk solids not fat	FSSAI Manual	0.5 g/100g -50g/100 g
		Milk fat	FSSAI Manual	0.5 g/100g -50g/100 g
<b>h.</b>	<b>Whey Products</b>	Fat	FSSAI Manual	0.5 g/100g -50g/100 g
		Milk protein	FSSAI Manual	0.5 g/100g -40g/100 g
		Moisture	FSSAI Manual	0.1 g/100g -10g/100 g
		Total ash	FSSAI Manual	0.05 g/100g -10g/100 g
		pH in whey powder	FSSAI Manual	3-12
<b>i.</b>	<b>Edible Casein Products</b>	Moisture	IS 1167	0.05 g/100g -10g/100 g
		Total ash	IS 1167	0.05 g/100g -10g/100 g
		Acid insoluble ash	IS 1167	0.01 g/100g -5g/100 g
		Milk Fat	FSSAI Manual	0.05 g/100g -10g/100 g
		Milk protein (NX6.38) on dry basis	FSSAI Manual	1 g/100g -20g/100 g
		Casein in protein in casein	FSSAI Manual	1 g/100g -20g/100 g
		Free acidity at ml of NaOH per 10g	IS 1167	0.1 g/100g -5g/100 g
		pH in casein	FSSAI Manual	4-10
<b>j.</b>	<b>Coagulated Milk Products</b>	Moisture	FSSAI Manual	1 g/100g -60 g/100 g
<b>k.</b>	<b>Cheese, Paneer, Chhana,</b>	Milk protein (NX6.38)	FSSAI Manual	0.5 g/100g -40g/100 g
<b>l.</b>	<b>Processed Cheese, Khoa</b>	Total ash	FSSAI Manual	0.05 g/100g -10g/100 g
		Fat	FSSAI Manual	1 g/100g -50g/100 g
		Starch	FSSAI Manual	Qualitative (Positive/Negative)
		Sugar	FSSAI Manual	Qualitative (Positive/Negative)
<b>l.</b>	<b>Ice Cream, Kulfi</b>	Total solids	FSSAI Manual	2 g/100g -50g/100 g
<b>m.</b>	<b>Chocolate Ice Cream, Softy Ice</b>	Fat	FSSAI Manual	0.5 g/100g -50g/100 g
		Protein (NX6.38)	FSSAI Manual	0.5 g/100g -40g/100 g



Laboratory **Excellent Bio Research Solutions Pvt. Ltd., 1042, 4th Bridge, Napier Town, Jabalpur, Madhya Pradesh**

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

Certificate Number **TC-5775**

Page 14 of 19

Validity **06.09.2018 to 05.09.2020**

Last Amended on --

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Solubility in boiling water	FSSAI Manual	Qualitative (Positive/Negative)
		Cereal Starch	FSSAI Manual	Qualitative (Positive/Negative)
		Chicory in coffee	FSSAI Manual	Qualitative (Positive/Negative)
		Tamarind seed/date	FSSAI Manual	Qualitative (Positive/Negative)
<b>8.</b>	<b>Edible Oils and Fats</b>	Butyro-refractometer reading at 40°C	FSSAI Manual	0.0-50
		Refractive index at 40°C	FSSAI Manual	1.333-1.4895
		Moisture	FSSAI Manual	0.05 g/100g -2 g/100 g
		RM value	FSSAI Manual	1-50
		Acid value	FSSAI Manual	0.05 g/100g -5 g/100 g
		Iodine value	FSSAI Manual	5-250
		Specific gravity	FSSAI Manual	0.860-0.999
		Saponification value	FSSAI Manual	10-500
		Unsaponifiable matter	FSSAI Manual	0.1 g/100g -1.0g/100 g
		Polenske value	FSSAI Manual	13-30
		Mineral oil	FSSAI Manual	Qualitative (Positive/Negative)
		Castor oil	FSSAI Manual	Qualitative (Positive/Negative)
		Presence of sesame oil	FSSAI Manual	Qualitative (Positive/Negative)
		Presence of animal body fat	FSSAI Manual	Qualitative (Positive/Negative)
		Presence of argemone oil	FSSAI Manual	Qualitative (Positive/Negative)
		Presence of hydrocyanic acid	FSSAI Manual	Qualitative (Positive/Negative)
<b>9.</b>	<b>Sugar &amp; Sugar Products</b>	Moisture	FSSAI Manual	1 g/100g -20g/100 g
		Sulphated Ash	IS 6287	1 g/100g -15g/100 g

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Laboratory **Excellent Bio Research Solutions Pvt. Ltd., 1042, 4th Bridge, Napier Town, Jabalpur, Madhya Pradesh**

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

Certificate Number **TC-5775**

Page 15 of 19

Validity **06.09.2018 to 05.09.2020**

Last Amended on --

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Crude Fibre (on dry basis)	FSSAI Manual	1 g/100g -15g/100 g
		Fat (on dry basis)	IS 6287	0.01 g/100g -12g/100 g
		Total Sugar	IS 2650	1 g/100g -90g/100 g
		Reducing Sugar	IS 6287	0.5 g/100g -15g/100 g
		Sucrose	IS 6287	1.5 g/100g -100g/100 g
		Protein (NX6.25)	IS 7219	1 g/100g - 50g/100 g
		Acid insoluble ash	IS 6287	0.05 g/100g - 2g/100 g
		Water soluble ash (on dry basis)	FSSAI Manual	0.05 g/100g - 3g/100 g
<b>a.</b>	<b>Sugar</b>	Moisture (Loss on drying)	IS 15279	1 g/100g -20 g/100 g
		Sulphated Ash	IS 15279	1 g/100g -15 g/100 g
		Starch	IS 15279	Qualitative (Positive/Negative)
		Sucrose	IS 15279	60 g/100g -99g/100 g
<b>b.</b>	<b>Pithi Sugar</b>	Washing soda	FSSAI Manual	Qualitative (Positive/Negative)
		Chalk powder	FSSAI Manual	Qualitative (Positive/Negative)
<b>c.</b>	<b>Bura</b>	Ash insoluble in dil.HCl	FSSAI Manual	0.05 g/100g -2 g/100 g
		Total sugars (as sucrose)	FSSAI Manual	60 g/100g -99g/100 g
		Washing soda	FSSAI Manual	Qualitative (Positive/Negative)
<b>d.</b>	<b>Gur/Jaggery</b>	Insoluble matter	FSSAI Manual	1 g/100g -20g/100 g
		Total ash	FSSAI Manual	1 g/100g -15 g/100 g
		Ash insoluble in dil.HCl	FSSAI Manual	0.05 g/100g -2 g/100 g
		Sulphated ash	FSSAI Manual	1 g/100g -20 g/100 g
		Extraneous matter	FSSAI Manual	Qualitative (Positive/Negative)
		Washing soda	FSSAI Manual	Qualitative (Positive/Negative)

Laboratory **Excellent Bio Research Solutions Pvt. Ltd., 1042, 4th Bridge, Napier Town, Jabalpur, Madhya Pradesh**

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

Certificate Number **TC-5775**

Page 16 of 19

Validity **06.09.2018 to 05.09.2020**

Last Amended on --

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Chalk powder	FSSAI Manual	Qualitative (Positive/Negative)
10.	<b>Honey &amp; Honey Products</b>	Specific gravity at 27°C	IS 4941	1-3
		Moisture	IS 4941	1 g/100g -25 g/100 g
		Ash	IS 4941	0.01 g/100g -1 g/100 g
		Total reducing sugar	IS 4941	1 g/100g -100 g/100 g
		Acidity (as formic acid)	IS 4941	0.01 g/100g -1 g/100 g
		Sucrose	IS 4941	1 g/100g -5 g/100 g
		Optical density	IS 4941	0.01 g/100g -1 g/100 g
		Fiehe's Test	IS 4941	Qualitative (Positive/Negative)
11.	<b>Poultry &amp; Poultry Products</b>	Moisture	IS:7874 (P-I)	0.5 g/100g - 20g/100 g
		Ash	IS:7874 (P-I)	0.05 g/100g - 10g/100 g
		Acid Insoluble Ash (on moisture free basis)	IS:7874 (P-I)	0.01 g/100g - 5g/100 g
		Fat	IS:7874 (P-I)	0.5 g/100g - 50g/100 g
		Crude Protein (on moisture-free basis, N x 6.25)	IS:7874 (P-I)	1 g/100g - 60g/100 g
		Crude Fibre	IS10226(P-I)	0.2 g/100g - 20g/100 g
12.	<b>Jams, Juices, Sauces &amp; Concentrates</b>	pH of cut out syrup	IS 2860	1.0-12.0
		Acidity of cut out syrup	IS 2860	0.2 g/100g - 5 g/100 g
		Protein	IS 7219	0.5 g/100g - 50g/100 g
		Fat	IS 4684	0.5 g/100g - 50g/100 g
		Sugar	IS 2650	0.5 g/100g - 60g/100 g
		Crude Fiber	IS 10226 (I)	0.2 g/100g -10g/100 g
		Moisture	IS 4624	0.5 g/100g -10g/100 g
		Total soluble solids	IS 3884	1 g/100g -100g/100 g
		Total ash (on dry basis)	IS 4624	0.05 g/100g -10g/100 g
		Acid insoluble ash	IS 4624	0.05 g/100g -1.0g/100 g
13.	<b>Fruit &amp; Fruit Products</b>	pH of cut out syrup	IS 2860	1.0-12.0
		Acidity of cut out syrup	IS 2860	0.2 g/100g - 5 g/100 g
		Protein	IS 7219	0.5 g/100g - 50g/100 g

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

Certificate Number **TC-5775**

Page 17 of 19

Validity **06.09.2018 to 05.09.2020**

Last Amended on --

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Fat	IS 4684	0.5 g/100g - 50g/100 g
		Sugar	IS 2650	0.5 g/100g - 60g/100 g
		Crude Fiber	IS 10226 (P-I)	0.2 g/100g - 10g/100 g
		Moisture	IS 4624	10 g/100g - 90g/100 g
		Total soluble solids	IS 3884	1 g/100g - 100g/100 g
		Total ash (on dry basis)	IS 4624	0.05 g/100g - 10g/100 g
		Acid insoluble ash	IS 4624	0.05 g/100g - 1.0g/100 g
		Drained weight in Pickles	FSSAI Manual	30 g/100g - 90g/100 g
14.	<b>Vegetable and Vegetable Products</b>	pH of cut out syrup	IS 2860	1.0-12.0
		Acidity of cut out syrup	IS 2860	0.2 g/100g - 5 g/100 g
		Protein	IS 7219	0.5 g/100g - 50g/100 g
		Fat	IS 4684	0.5 g/100g - 50g/100 g
		Sugar	IS 2650	0.5 g/100g - 60g/100 g
		Crude Fiber	IS 10226 (P-I)	0.2 g/100g - 10g/100 g
		Moisture	IS 4624	0.5 g/100g - 90g/100 g
		Total soluble solids	IS 3884	1 g/100g - 100g/100 g
		Total ash (on dry basis)	IS 4624	0.05 g/100g - 10g/100 g
		Acid insoluble ash	IS 4624	0.05 g/100g - 1.0g/100 g
15.	<b>Beverages (alcoholic/ Non Alcoholic)</b>	Total soluble solids	FSSAI Manual	0 g/100g - 50g/100 g
		Total Sugar	IS:2346	1 g/100g - 90 g/100 g
		Added synthetic colour	FSSAI Manual	Qualitative (Positive/Negative)
		Mineral acid in lemonade soda	FSSAI Manual	Qualitative (Positive/Negative)
16.	<b>Food Additives &amp; Preservatives</b>	Presence of Benzoic acid	FSSAI Manual	Qualitative (Positive/Negative)
		Presence of Salicylic acid	FSSAI Manual	Qualitative (Positive/Negative)
		Presence of Sorbic acid	FSSAI Manual	Qualitative (Positive/Negative)
		Dulcin	FSSAI Manual	Qualitative (Positive/Negative)

Laboratory **Excellent Bio Research Solutions Pvt. Ltd., 1042, 4th Bridge, Napier Town, Jabalpur, Madhya Pradesh**

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

Certificate Number **TC-5775**

Page 18 of 19

Validity **06.09.2018 to 05.09.2020**

Last Amended on --

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Presence of mineral acid in Vinegar	FSSAI Manual	Qualitative (Positive/Negative)
		Aluminium leaves in silver leaves	FSSAI Manual	Qualitative (Positive/Negative)
17.	<b>Starch &amp; Starch Products</b>	Moisture content	IS 4706 (P-II)	1.0 g/100g -15.0g/100 g
		Total Ash (on dry basis)	IS 4706 (P-II)	0.01 g/100g -1.0g/100 g
		Acid insoluble ash (on dry basis)	IS 4706 (P-II)	0.01 g/100g -1.0g/100 g
		Crude Fiber (on dry basis)	IS 4706 (P-II)	0.01 g/100g -1.0g/100 g
		pH of aqueous extract	IS 4706 (P-II)	4.5-7.0
		Starch (Acid hydrolysis method) (on dry basis)	IS 4706 (P-II)	1 g/100g -100g/100 g
		Sand or talcum	FSSAI Manual	Qualitative (Positive/Negative)
18.	<b>Meat &amp; Meat Products</b>	Fat	IS 5960 (P-III)	1 g/100g -30g/100 g
		Protein	IS 7219	1 g/100g -30g/100 g
		pH	FSSAI Manual	4-9
		Moisture	IS 5960 (P-V)	1 g/100g -20g/100 g
		Total ash (on dry basis)	IS 5960 (P-II)	1 g/100g -50g/100 g
		Acid insoluble ash (on dry basis)	IS 5960 (P-II)	0.01 g/100g -2.0g/100 g
II.	<b>WATER</b>			
1.	<b>(Drinking Water, Potable Water, Natural Mineral Water, Packaged Drinking Water, Water for Food Processing Industries, Treated Water,</b>	pH	IS 3025 (P-11)	3.0-12.0
		Total Hardness	IS 3025 (P-21)	1mg/L-500 mg/L
		Electrical conductivity	IS 3025 (P-14)	1-1413µmhos/cm, 1413-10,000 µmhos/cm,
		Total Dissolved Solids	IS 3025 (P-16)	1 mg/L -2500 mg/L
		Alkalinity	IS 3025 (P-23)	1 mg/L -500 mg/L
		Fluoride	IS 3025 (P-60)	0.05 mg/L -20 mg/L
		Chloride	IS 3025 (P-32)	1 mg/L -1000 mg/L
		Nitrate	IS 3025 (P-34)	1 mg/L -50 mg/L

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

**Certificate Number**        **TC-5775**

**Page 19 of 19**

**Validity**                        **06.09.2018 to 05.09.2020**

**Last Amended on --**

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	<b>Municipal Water, Ground Water)</b>	Calcium	IS 3025 (P-40)	1 mg/L -500 mg/L
		Magnesium	IS 3025 (P-46)	1 mg/L -500 mg/L
		Sulphate	IS 3025 (P-24)	2 mg/L -1000 mg/L
		Iron	IS 3025 (P-53)	0.05 mg/L -1000 mg/L
		Odour	IS 3025 (P-5)	Qualitative (Agreeable/Disagreeable)
		Residual Chlorine	IS 3025 (P-26)	0.1 mg/L -5 mg/L
		Turbidity	IS 3025 (P-10)	0.1- 40 (NTU)
		Total Suspended Solids	IS 3025(P-15)	1 mg/L -1000 mg/L
		Total Kjeldahl Nitrogen as N	IS 5194	0.5 mg/L - 5 mg/L
		Biochemical Oxygen Demand	IS 3025(P- 44)	2 mg/L – 20 mg/L
	Chemical Oxygen Demand	IS 3025(P-58)	5 mg/L – 250 mg/L	
	Phosphates as P	IS 3025 (P-31)	0.1 mg/L -2.5mg/L	

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