

Laboratory **Accurate Laboratory, E-17, Madhavpura Market, Shahibaug, Ahmedabad, Gujarat**

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

Certificate Number **TC-5021** *(in lieu of T-3317, T-3318)* **Page 1 of 17**

Validity **23.02.2017 to 22.02.2019** **Last Amended on 27.02.2017**

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
-----	----------------------------	-------------------------	---	--

BIOLOGICAL TESTING

I.	FOOD AND AGRICULTURAL PRODUCTS			
1.	Milk & Dairy Products	Total Bacterial Count	IS 5402-2012	≥1cfu/ml ≥ 10 cfu/g
		Yeast & Mould Count	IS 5403-1999 (RA 2005)	≥1cfu/ml ≥ 10 cfu/g
		Coliform Count	IS 5401(P-I)-2012	≥1cfu/ml ≥ 10 cfu/g
		E-coli(Detection)	IS 5887(P-I)-1976 (RA 2005)	Qualitative (Present / Absent / 1g / ml)
		S.aureus (Detection)	IS 5887(P-II)-1976 (RA 2005)	Qualitative (Present / Absent / 1g / ml)
		Salmonella	IS 5887(P-III) -1999 (RA 2005) / ISO 6579 : 2002	Qualitative (Present / Absent / 25g / ml)
2.	Fruits & Fruit Products	Total Bacterial Count	IS 5402-2012	≥ 1cfu/ml ≥10cfu/g
		Yeast & Mould count	IS 5403-1999 (RA 2005)	≥1cfu/ml ≥ 10 cfu/g
		Coliform Count	IS 5401(P-I)-2012	≥1cfu/ml ≥ 10 cfu/g
		E-coli(Detection)	IS 5887(P-I)-1976 (RA 2005)	Qualitative (Present / Absent / 1g / ml)
		S.aureus (Detection)	IS 5887(P-II)-1976 (RA 2005)	Qualitative (Present / Absent / 1g / ml)
		Salmonella	IS 5887(P-III) -1999 (RA 2005) / ISO 6579 : 2002	Qualitative (Present / Absent / 25g / ml)

Ajay Kumar Sharma
Convenor

N. Venkateswaran
Program Director

Laboratory **Accurate Laboratory, E-17, Madhavpura Market, Shahibaug, Ahmedabad, Gujarat**

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

Certificate Number **TC-5021** *(in lieu of T-3317, T-3318)* **Page 2 of 17**

Validity **23.02.2017 to 22.02.2019** **Last Amended on 27.02.2017**

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
3.	Herbs, Spices & Condiments	Total Bacterial Count	IS 5402-2012	≥10cfu/g
		Yeast & Mould Count	IS 5403-1999 (RA 2005)	≥10cfu/g
		Coliform Count	IS 5401(P-I)-2012	≥10cfu/g
		E-coli(Detection)	IS 5887(P-I)-1976 (RA 2005)	Qualitative (Present / Absent / 1g / ml)
		S.aureus (Detection)	IS 5887(P-II)-1976 (RA 2005)	Qualitative (Present / Absent / 1g / ml)
		Salmonella	IS 5887(P-III) -1999 (RA 2005) / ISO 6579 : 2002	Qualitative (Present / Absent / 25g / ml)
4.	Snacks & Instant Mixes	Total Bacterial Count	IS 5402-2012	≥10cfu/g
		Yeast & Mould Count	IS 5403-1999 (RA 2005)	≥10cfu/g
		Coliform Count	IS 5401(P-I)-2012	≥10cfu/g
		E-coli(Detection)	IS 5887(P-I)-1976 (RA 2005)	Qualitative (Present / Absent / 1g / ml)
		S.aureus (Detection)	IS 5887(P-II)-1976 (RA 2005)	Qualitative (Present / Absent / 1g / ml)
		Salmonella	IS 5887(P-III) -1999 (RA 2005) / ISO 6579 : 2002	Qualitative (Present / Absent / 25g / ml)
5.	Bakery & Confectionary Products	Total Bacterial Count	IS 5402-2012	≥10cfu/g
		Yeast & Mould Count	IS 5403-1999 (RA2005)	≥10cfu/g
		Coliform Count	IS 5401(P-I)-2012	≥10cfu/g
		E-coli(Detection)	IS 5887(P-I)-1976 (RA 2005)	Qualitative (Present / Absent / 1g / ml)
		S.aureus (Detection)	IS 5887(P-II)-1976 (RA2005)	Qualitative (Present / Absent / 1g / ml)

Laboratory **Accurate Laboratory, E-17, Madhavpura Market, Shahibaug, Ahmedabad, Gujarat**

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

Certificate Number **TC-5021** *(in lieu of T-3317, T-3318)* **Page 3 of 17**

Validity **23.02.2017 to 22.02.2019** **Last Amended on 27.02.2017**

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Salmonella	IS 5887(P-III) -1999 (RA 2005) / ISO 6579 : 2002	Qualitative (Present / Absent / 25g / ml)
6.	Tea	Total Bacterial Count	IS 5402-2012	≥1cfu/ml ≥ 10 cfu/g
		Yeast & Mould Count	IS 5403-1999 (RA2005)	≥1cfu/ml ≥ 10 cfu/g
		Coliform Count	IS 5401(P-I)-2012	≥1cfu/ml ≥ 10 cfu/g
		E-coli(Detection)	IS 5887(P-I)-1976 (RA2005)	Qualitative (Present / Absent / 1g / ml)
		S.aureus (Detection)	IS:5887(P-II)-1976 (RA 2005)	Qualitative (Present / Absent / 1g / ml)
		Salmonella	IS 5887(P-III) -1999 (RA 2005) / ISO 6579 : 2002	Qualitative (Present / Absent / 25g / ml)
7.	Oil Seeds & By Products	Total Bacterial Count	IS 5402-2012	≥1cfu/ml ≥ 10 cfu/g
		Yeast & Mould Count	IS 5403-1999 (RA2005)	≥1cfu/ml ≥ 10 cfu/g
		Coliform Count	IS 5401(P-I)-2012	≥1cfu/ml ≥ 10 cfu/g
		E-coli(Detection)	IS 5887(P-I)-1976 (RA 2005)	Qualitative (Present / Absent / 1g / ml)
		S.aureus (Detection)	IS 5887(P-II)-1976 (RA 2005)	Qualitative (Present / Absent / 1g / ml)
		Salmonella	IS 5887(P-III) -1999 (RA 2005) / ISO 6579 : 2002	Qualitative (Present / Absent / 25g / ml)

Laboratory **Accurate Laboratory, E-17, Madhavpura Market, Shahibaug, Ahmedabad, Gujarat**

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

Certificate Number **TC-5021** *(in lieu of T-3317, T-3318)*

Page 4 of 17

Validity **23.02.2017 to 22.02.2019**

Last Amended on 27.02.2017

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
II.	WATER			
1.	Drinking Water	Coliform (By MPN)	IS 1622-1981 RA2003	> 2 to 1600 MPN/100 ml
		E-Coli (By MPN)	IS 1622-1981 RA2003	> 2 to 1600 MPN/100 ml
2.	Packaged Drinking Water	Escherichia coli	IS 15185-2002	Qualitative (Present / Absent / 250ml)
		Coli form bacteria	IS 15185-2002	Qualitative (Present / Absent / 250ml)
		Aerobic microbial count (at 20-22°C for 72 hrs and at 37°C for 24 hrs)	IS 5402-2012	≥ 1 cfu / ml
		Yeast & Mould	IS 5403-1999 IS 15188:2002	Qualitative (Present / Absent / 250ml)
		Salmonella	IS 15187-2002	Qualitative (Present / Absent / 250ml)
		Staphylococcus aureus	IS 5887(P-II)-1976 IS 15188:2012	Qualitative (Present / Absent / 250ml)
3.	Packaged Natural Mineral Water	Escherichia coli	IS 15185-2002	Qualitative (Present / Absent / 250ml)
		Coli form bacteria	IS 15185-2002	Qualitative (Present / Absent / 250ml)
		Yeast & Mould	IS 5403-1999 IS 15188:2002	Qualitative (Present / Absent / 250ml)
		Salmonella	IS 15187-2002	Qualitative (Present / Absent / 250ml)

Laboratory **Accurate Laboratory, E-17, Madhavpura Market, Shahibaug, Ahmedabad, Gujarat**
Accreditation Standard **ISO/IEC 17025: 2005**
Certificate Number **TC-5021** *(in lieu of T-3317, T-3318)* **Page 5 of 17**
Validity **23.02.2017 to 22.02.2019** **Last Amended on 27.02.2017**

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Staphylococcus aureus	IS 5887(P-II)-1976 IS 15188:2012	Qualitative (Present / Absent / 250ml)
III.	ENVIRONMENT AND POLLUTION			
1.	Bio Burden Estimation of Classified & Non Classified area Hygiene Swab (By Sterile Cotton Swab)	Total Bacterial Count	AL/SOP/M-10 (Issue No. : 1, Issue Date : 07-12-2013) ISO 18593 : 2004 (E)	≥ 10 cfu/25/50/100/cm ² / Swab
		Total fungal count		≥ 10 cfu/25/50/100/cm ² / Swab
		Coliform count		≥ 10 cfu/25/50/100/cm ² / Swab

NOTE: The Laboratory has demonstrated competence for the stated scope for **WATER**. This however does not fully cover the specification requirements of **BIS for the Packaged Drinking Water as per IS 14543 and the Packaged Natural Mineral Water IS 13428.**

Ajay Kumar Sharma
Convenor

N. Venkateswaran
Program Director

Laboratory **Accurate Laboratory, E-17, Madhavpura Market, Shahibaug, Ahmedabad, Gujarat**

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

Certificate Number **TC-5021** *(in lieu of T-3317, T-3318)* **Page 6 of 17**

Validity **23.02.2017 to 22.02.2019** **Last Amended on 27.02.2017**

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
-----	----------------------------	-------------------------	---	--

CHEMICAL TESTING

I.	FOOD AND AGRICULTURAL PRODUCTS			
1.	Food Grains (Whole and Split: Wheat, Maize, Rice, Jowar, Bajra, Masur, Urd, Moong, Chana)	Moisture	IS 4333(P-II):2002 (RA 2012) (Method No. 7)	5.0 to 25 g/100 g
		Foreign matter / Extraneous matter	IS 4333(P-I):1996 (RA 2012) (Method No. 6.2)	0 to 20 g/100 g
		Damaged/Broken Kernels	IS 4333(P-I):1996 (RA 2012) (Method No. 6.3)	0 to 20 g/100 g
		Weeviled Kernels	IS 4333(P-I):1996: 2012 (Method No. 6.3)	0 to 20 g/100 g
		Other edible grains	IS 4333(P-I):1996: 2012 (Method No. 6.3)	0 to 20 g/100 g
		Green Grains in (Tur dal & Chana dal, Moong Mogar Dal)	IS 4333(P-I):1996: 2012 (Method No. 6.3)	0 to 20 g/100 g
		Material Retained on Sieve (4.00 mm, 6mm)	IS 4333(P-I):1996 (RA 2012)	Min. 80.0 g/100 g
		Material Retained on Sieve (4.00 mm, 3.35 mm, 1.70 mm, 1.0 mm, 2.5mm)	IS 4333(P-I):1996 (RA 2012)	0.25 to 3.0 g/100 g
		Aflatoxin (B1, B2, G1, G2)	AOAC 20 th Edition 999.07 / AOAC 20 th Edition 2005.08 based on SOP No. AL/SOP/I-01	0.30 to 100 µg/kg
2.	Cereals & Cereal Products			
a.	Atta, Maida, Suji, Besan, Maize Flour	Moisture	Appendix A of IS:1155:1968 RA :2010 IS:4706(P-2)-1978, RA : 2005 (Method No. 4)	5.0 to 20 g/100 g

Laboratory **Accurate Laboratory, E-17, Madhavpura Market, Shahibaug, Ahmedabad, Gujarat**

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

Certificate Number **TC-5021** *(in lieu of T-3317, T-3318)* **Page 7 of 17**

Validity **23.02.2017 to 22.02.2019** **Last Amended on 27.02.2017**

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Insect Infestation (Live & Dead)	FSSAI Manual on Cereal & Cereal Products (Page-89)	Qualitative (Present / Absent)
		Total Ash (on dry wt. basis)	Appendix B of IS:1155:1968 RA: 2010/ IS:4706(P-2)-1978, RA : 2005 (Method No. 5)	0.5 to 5.0 g/100 g
		Ash insoluble in dilute HCl (on dry weight basis)	Appendix A of IS:1155:1968 RA :2010 / IS:4706(P-2)-1978, RA : 2005 (Method No. 4)/ Appendix A of IS 1806:1975, RA 2011	0.05 to 1.0 g/100 g
		Alcoholic Acidity expressed as H ₂ SO ₄	Appendix F of IS:1155:1968 RA : 2010 / IS : 4706 (P-2)-1978, RA 2005 (Method No. 15)	0.05 to 0.5 g/100 g
		Added Coloring matter	FSSAI Manual on Food Additives (Page-89)	Qualitative (Present / Absent)
		Gluten (on dry weight basis)	Appendix B of IS 1009: 1979 RA. 2010 (Page No. 10)/ Appendix D of IS 1155 :1968 RA : 2010 (Page 9)	2 to 20 g/100 g
		Aflatoxin (B1, B2, G1, G2)	AOAC 20 th Edition 999.07 / AOAC 20 th Edition 2005.08 based on SOP No. AL/SOP/I-01	0.30 to 100 µg/kg
b.	Rice Bran	Fat (Oil)	IS 7874(P-1) -1975, RA 1990 (Method No. 7)	1 to 25 g/100 g
3.	Tea & Tea Products	Loss in mass at 103 ^o C	IS:13853-1994 RA. 1999 (Method No. 6)	1.0 to 10.0 g/100 g
		Total Ash	IS:13854-1994 RA. 1999 (Method No. 7)	0.1 to 10 g/100 g

Laboratory **Accurate Laboratory, E-17, Madhavpura Market, Shahibaug, Ahmedabad, Gujarat**

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

Certificate Number **TC-5021** *(in lieu of T-3317, T-3318)* **Page 8 of 17**

Validity **23.02.2017 to 22.02.2019** **Last Amended on 27.02.2017**

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Water soluble ash of total ash	IS:13855-1993 RA 1998 (Method No. 6)	35 to 70 g/100 g
		Acid insoluble ash	IS:13857-1993 RA 1998 (Method No. 7)	0.1 to 3.0 g/100 g
		Alkalinity of water soluble ash (as K ₂ O)	IS: 13856-1993 RA 1998 (Method No. 6)	0.2 to 5 g/100 g
		Water extract	FSSAI Manual on Beverages, Sugar & Sugar Products & Confectionery Products (Page-10) / IS:13862-1998 RA. 1998 (Method No. 8)	10.0 to 60.0 g /100 g
		Crude Fibre	Cl. 9 of IS:16041 : 2012 (Page No. 3)	1 – 25 g/100 g
		Added Coloring matter	FSSAI Manual on Food Additives (Page-89)	Qualitative (Present / Absent)
		Iron Fillings	Appendix H of IS 3633 : 2003, RA 2008 (Page No. 3)	10 mg/kg to 1000 mg/kg
4.	Iodized Salt / Vacuum Evaporated Iodized Salt / Refined Iodized Salt	Moisture	Annex A IS:7224:2006 / Appendix A2 of IS-253 1985, RA 1995	0.1 to 5.0 g/100 g
		Water insoluble matter	Annex C IS:7224:2006 / Appendix A4 of IS-253 1985, RA 1995	0.1 to 5.0 g/100 g
		Chloride as NaCl	Annex D IS:7224:2006 / Appendix A5 of IS-253 1985, RA 1995	70 to 99.8 %
		Matter soluble in water other than NaCl	Annex E IS:7224:2006 / Appendix A7 of IS-253 1985, RA 1995	0.1 to 2.0 %
		Calcium	Annex F IS:7224:2006	0.01 to 1.0 %
		Magnesium	Annex F IS:7224:2006	0.01 to 1.0 %
		Sulphate	Annex G IS:7224:2006	0.1 to 2.0 %
		Iodine content on dry basis	Annex H IS:7224:2006	5 to 100 mg/kg

Laboratory **Accurate Laboratory, E-17, Madhavpura Market, Shahibaug, Ahmedabad, Gujarat**

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

Certificate Number **TC-5021** *(in lieu of T-3317, T-3318)* **Page 9 of 17**

Validity **23.02.2017 to 22.02.2019** **Last Amended on 27.02.2017**

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Alkalinity	Annex J IS:7224:2006	0.02 to 0.5 %
		Iron	Annex M IS:7224:2006	Qualitative
		Material passed through sieve (4.00 mm, 1.0 mm, 150 micron)	IS:7224:2006 (Method No. 4.2)	Min. 90.0 g/100 g
		Material passed through sieve (1.0 mm)	IS:7224:2006 (Method No. 4.2)	Min. 90.0 g/100 g
		Material passed through sieve (150 micron)	IS:7224:2006 (Method No. 4.2)	0.1 to 10.0 g/100 g
		Potassium Ferrocyanide	Annex B of IS:7224:2006	Qualitative (5 to 20 mg/kg)
5.	Nutritional Labeling (Packaged Products)	Energy	SOP No. AL/SOP/C-035 (Issue No. : 01, Issue Date : 01-06-14)	N.A.
		Total fat	Annex. D of IS 15271 : 2003 (Page No. 4)/ Annex. A of IS 1163:1992 RA.2009 (Page No. 5)	0.5 to 90 g/100 g
		Total Carbohydrates	SOP No. AL/SOP/C-036 (Issue No. : 01, Issue Date : 01-06-14)/ AOAC 986.25	0.1 to 99 g/100 g
		Protein	IS: 7219 : 1973 RA. 2005 (Page No 6)	5.0 to 20.0 g/100 g
		Sugar	Annex. D of IS 1163:1992 RA.2009 (Page No 9) / Cl. 8 of IS 6287: 1985 (RA 2010)	0.1 to 99 g/100 g
6.	Bakery Products Biscuits Cookies	Added Colouring matter	FSSAI Manual on Food Additives (Page-89)	Qualitative (Present / Absent)
		Ash insoluble in dil HCl	Cl. of IS 12711 : 1989 RA. 2010 (Page No. 2)/ Annex C of IS 1011 : 2002 (Page No. 7)	0.01 to 2.0 g/100 g

Laboratory **Accurate Laboratory, E-17, Madhavpura Market, Shahibaug, Ahmedabad, Gujarat**

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

Certificate Number **TC-5021** *(in lieu of T-3317, T-3318)* **Page 10 of 17**

Validity **23.02.2017 to 22.02.2019** **Last Amended on 27.02.2017**

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Total Ash	Cl.6 of IS 12711 : 1989 RA. 2010 (Page No. 1)	0.1 to 20.0g 100 g
		Moisture	Cl.5 of IS 12711 : 1989 RA. 2010 (Page No. 1)/ Annex B of IS:1011-2002(Page No. 6)	0.2 to 50g/100 g
		Acidity of extracted fat	Cl. 11 of IS 12711 : 1989 RA. 2010 (Page No. 3)/ Annex D of IS:1011-2002 (Page No.7)	0.2 to 5 g/100 g
7.	Edible Oils & Fats Sunflower Oil Groundnut Oil Cottonseed Oil Mustard Oil Sesame Oil Palmolein Oil Palm Oil Palm Kernel Oil	Refractive index at 40 Deg C/B.R Reading	Cl. 10 of IS 548(Part I) 1964 RA 2010 (Page 35)	1.4500 to 1.4900 30 to 70
		Moisture	IS 548(Part I) 1964 RA .2010 (Method no. 5)	0.01 to 1.0 g/100 g
		Free fatty acid (as Oleic Acid)	IS 548(Part I) 1964 RA. 2010 (Method No. 7)	0.05 to 1.0 g/100 g
		Acid value	IS 548(Part I) 1964 RA. 2010 (Method No. 7)	0.02 to 10
		Saponification value	IS 548(Part I) 1964 RA. 2010 (Method No. 15)	100 to 300
		Iodine value	IS 548(Part I) 1964 RA. 2010 (Method No. 14)	5.0 to 200.0
		Unsaponifiable matter	IS 548(Part I) 1964 RA. 2010 (Method No. 8)	0.1 to 5.0 g/100 g
		Peroxide value	IS 548(Part I) 1964 RA. 2010 (Method No. 21)	0.5 to 20 meq/ Kg

Laboratory **Accurate Laboratory, E-17, Madhavpura Market, Shahibaug, Ahmedabad, Gujarat**

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

Certificate Number **TC-5021** *(in lieu of T-3317, T-3318)* **Page 11 of 17**

Validity **23.02.2017 to 22.02.2019** **Last Amended on 27.02.2017**

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Bellier Turbidity Temperature Test	IS 548(Part II) 1993 RA. 2009 (Method No. 13)	10 to 50°C
		Test for Sesame Oil	IS 548(Part II) 1993 RA 2009 (Method No. 6)	Qualitative (Positive / Negative)
		Test for Mineral oil	IS 548(Part II) 1993 RA 2009 (Method No. 12)	Qualitative (Positive / Negative)
		Test for Argemone oil	IS 548(Part II) 1993 RA 2009 (Method No. 8)	Qualitative (Positive / Negative)
		Test for Cator oil	IS 548(Part II) 1993 RA 2009 (Method No. 15)	Qualitative (Positive / Negative)
		Test for Hydrocyanic acid	IS 548(Part II) 1993 RA 2009 (Method No. 10)	Qualitative (Positive / Negative)
		Test for Rancidity (Kries Test)	FSSAI Manual on Oils and Fats (Page-81)	Qualitative (Positive / Negative)
		Specific Gravity	IS 548(Part II) 1993 RA 2009 (Method No. 40)	0.8 to 1.5
8.	Oil Seeds & Peanuts	Aflatoxin (B1, B2, G1, G2)	AOAC 20 th Edition 999.07 / AOAC 20 th Edition 2005.08 based on SOP No. AL/SOP/I-01	0.30 to 100 µg/kg
		Moisture	IS : 3579 : 1966, RA 2000 (Method No. 5.1)	0.2 to 10%
		Damaged Kernels	IS : 3579 : 1966 RA 2000 (Method No. 4)	0 to 10 %
		Discolour Kernels	IS : 3579 : 1966 RA 2000 (Method No. 4)	0 to 10 %

Laboratory **Accurate Laboratory, E-17, Madhavpura Market, Shahibaug, Ahmedabad, Gujarat**

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

Certificate Number **TC-5021** *(in lieu of T-3317, T-3318)* **Page 12 of 17**

Validity **23.02.2017 to 22.02.2019** **Last Amended on 27.02.2017**

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Split Kernels	IS : 3579 : 1966 RA 2000 (Method No. 4)	0 to 40 %
		Broken Kernels	IS : 3579 : 1966 RA 2000 (Method No. 4)	0 to 10 %
		Without Red Skin	IS : 3579 : 1966 RA 2000 (Method No. 4)	0 to 10 %
		Foreign Matter	IS : 3579 : 1966 RA 2000 (Method No. 4)	0 to 10 %
		Shrivelled Kernels	IS : 3579 : 1966 RA 2000 (Method No. 4)	0 to 25 %
		Count	FOSFA International Method, April 2010	25 to 150
		Peroxide Vaue of extracted Fat	IS 548 (P-1) : 1964 RA 2010	0.1 meq/kg to 50 meq/kg
		Free Fatty Acid (as Oleic Acid)	IS 548 (P-1) : 1964 RA 2010	0.1 to 5 %
		Oil Content	IS 3579 : 1966	0.1 to 60 %
9.	Peanut Butter	Aflatoxin (B1, B2, G1, G2)	AOAC 20 th Edition 999.07 / AOAC 20 th Edition 2005.08 based on SOP No. AL/SOP/I-01	0.30 to 100 µg/kg
		Moisture	Appendix A of IS : 9037-1979 RA. 2000	0.2 to 10.0 %
		Fat	Appendix B of IS : 9037-1979 RA. 2000	35.0 to 60.0 %
		Protein (N X 6.25)	Appendix C of IS 4684-1975 RA 1983	20.0 to 60.0 %
		Total Ash	Appendix D of IS 4684-1975 RA 1983	1.0 % to 7.5 %
		Acid Value of Extracted Fat	Appendix G of IS 4684-1975 RA 1983	0.1 % to 5.0 %

Laboratory **Accurate Laboratory, E-17, Madhavpura Market, Shahibaug, Ahmedabad, Gujarat**

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

Certificate Number **TC-5021** *(in lieu of T-3317, T-3318)* **Page 13 of 17**

Validity **23.02.2017 to 22.02.2019** **Last Amended on 27.02.2017**

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
10.	Spices, Condiments & Related Products [Whole, Powder & Mix Masala, Saffron]	Extraneous (Organic & Inorganic) / Foreign Matter	ASTA cleanliness specifications for spices, seeds and herbs, 1999	Qualitative (Present / Absent)
		Insect damaged Matter	ASTA cleanliness specifications for spices, seeds and herbs, 1999	Qualitative (Present / Absent)
		Whole Insects, dead	ASTA cleanliness specifications for spices, seeds and herbs, 1999	Qualitative (Present / Absent)
		Rodent Contamination	ASTA cleanliness specifications for spices, seeds and herbs, 1999	Qualitative (Present / Absent)
		Foreign starch	Cl. 8 of IS 7807 : 1975 RA. 2003 (Page No. 8)	Qualitative (Present / Absent)
		Added coloring matter	FSSAI Manual on Food Additives (Page-89)	Qualitative (Present / Absent)
		Lead Chromate Test	FSSAI Manual on Spices and Condiments (Page-34)	Qualitative (Present / Absent)
		Moisture	Cl. 9 of IS:1797-1985 RA. 2009 (Page No. 8)	0.1 to 20% by mass
		Total ash	Cl. 6 of IS:1797-1985 RA. 2009 (Page No. 5)/ Cl. 3 of IS 7807 : 1975 RA.2003 (Page No. 4)	0.1 to 25% by mass
		Acid insoluble ash	Cl. 8 of IS:1797-1985 RA. 2009 (Page No. 7)/ Cl. 5 of IS 7807 : 1975 RA. 2009 (Page No.5)	0.1 to 10% by mass
		Crude fibre	Cl. 13 of IS:1797-1985 RA. 2009 (Page No. 13)	1 to 50% by mass
		Non Volatile Ether Extract	Cl. 14 of IS:1797-1985 RA. 2009 (Page No. 14)	1 to 50 %
		Volatile oil contents	Cl. 15 of IS:1797-1985 RA. 2009 (Page No. 15)	0.05 to 25%

Laboratory **Accurate Laboratory, E-17, Madhavpura Market, Shahibaug, Ahmedabad, Gujarat**

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

Certificate Number **TC-5021** *(in lieu of T-3317, T-3318)* **Page 14 of 17**

Validity **23.02.2017 to 22.02.2019** **Last Amended on 27.02.2017**

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Curcumin	Appendix B of IS: 10925-1984 RA. 2012 (Page No. 7)	1 to 5% by mass
		Total Starch	Cl. 9 of IS 4706(P-2):1978 RA. 2005 (Page No. 10)	5 to 70% by mass
		Capsaicin	AOAC 20 th EDITION, 2016 995.03	0.1 to 5%
		Aflatoxin (B1, B2, G1, G2)	AOAC 20 th Edition 999.07 / AOAC 20 th Edition 2005.08 based on SOP No. AL/SOP/I-01	0.30 to 100 µg/kg
		Moisture & Volatile Matter content (in saffron)	Cl. 13 of IS 5453(P-2)-1996 (Page No. 8)	1.0 to 15 %
		Safranal (in saffron)	Cl. 13 of IS 5453(P-2)-1996 (Page No. 9)	10.0 to 80 %
		Picrocrocin (in saffron)	Cl. 13 of IS 5453(P-2)-1996 (Page No. 9)	15.0 to 80 %
		Crocin (in saffron)	Cl. 13 of IS 5453(P-2)-1996 (Page No. 9)	20 to 200 %
11.	Sweetening Agents Plantation White Sugar Refined sugar Bura Sugar / Cube Sugar Jaggery or Gur	Extraneous Matter	FSSAI Manual on Beverages, Sugar & Confectionery Product (Page-53)	Qualitative (Present / Absent)
		Sulphated ash	Cl. 10 of IS 15279:2003 (Page No. 11)	0.05 to 10%
		Sucrose	Cl. 12 of IS 15279:2003 (Page No. 13)	1 to 100 %
		Colour in ICUMSA	Cl. 8 of IS 15279:2003 (Page No. 8)	10 to 250
		Reducing Sugar	Cl. 7 of IS 15279:2003 (Page No. 6)	0.01 to 30 %
12.	Milk	Test for Formaldehyde	Cl. 18.2 of IS:1479 (P-1)-1960 , RA 2003(Page No-33)	Qualitative (Present / Absent)
		Test for Cane Sugar	Cl. 17.6 of IS:1479 (P-1)-1960, RA 2003(Page No-32)	Qualitative (Present / Absent)

Laboratory **Accurate Laboratory, E-17, Madhavpura Market, Shahibaug, Ahmedabad, Gujarat**

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

Certificate Number **TC-5021** *(in lieu of T-3317, T-3318)* **Page 15 of 17**

Validity **23.02.2017 to 22.02.2019** **Last Amended on 27.02.2017**

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Test for Starch	Cl 17.5 of IS:1479 (P-1)-1960 RA 2003(Page No-32)	Qualitative (Present / Absent)
		Test for Cellulose	FSSAI Manual on Milk and Milk Products (Page-12)	Qualitative (Present / Absent)
		Test for Added Urea	Cl.17.7 of IS:1479 (P-1): 1960, RA 2003(Pg No : 1)	Qualitative (Present / Absent)
		Test for presence of Salicylic acid	Cl. 18.4 of IS:1479 (P-1)-1960, RA 2003 (Page No. 35)	Qualitative (Present / Absent)
		Test for Neutralizers	Cl. 19 of IS:1479 (P-1)-1960, RA 2003(Page No. 36)	Qualitative (Present / Absent)
		Moisture	Cl. 4 of IS:1479 (P-2)-1960, RA 2008 (Page No.6)	1 to 90%
		Milk Fat	Cl. 5 of IS:1479 (P-2)-1960, RA 2008 (Page No. 6)	1 to 10%
		Milk Solids Non Fat	FSSAI Manual on Milk and Milk Products (Page-89)	1 to 20%
13.	Dairy Products	B.R at 40°C / B.R. at 40°C of extracted Fat	Cl.6 of IS:3508-1966 Reaff:2003 (Page No 13)	30 to 70
		R.M. Value / R.M. Value of Extracted Fat	Cl. 12 of IS:3508-1966 RA2003 (Page No 22)	0.5 to 35
		Baudouin Test	Cl. 21 of IS:3508-1966 RA: 2003 (Pg No 56)	Qualitative (Positive/ Negative)
		Moisture	IS 16072-2012 (Page No. 1)	0.1 to 10 g/ 100 g
		Total Ash	Annex B of IS:14433-2007 (Page No. 8)	0.1 to 10 g/100 g
		Acid Insoluble Ash	Annex C of IS : 14433 : 2007 (Page No. 8)	0.01 to 2.0 g/100 g
		FFA as Oleic Acid	Cl. 11of IS:3508-1966 RA2003 (Page No.21)	0.01 to 10g/100 g
		Fat	FSSAI Manual on Milk and Milk Products (Page-36)	0.2 to 50g/ 100 g
		Protein	Cl. 8 of IS-7219-1973 RA2005 (Page No. 6)	0.5 to 50g/ 100 g

Laboratory **Accurate Laboratory, E-17, Madhavpura Market, Shahibaug, Ahmedabad, Gujarat**

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

Certificate Number **TC-5021** *(in lieu of T-3317, T-3318)* **Page 16 of 17**

Validity **23.02.2017 to 22.02.2019** **Last Amended on 27.02.2017**

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
14.	Supplementary Nutritional Food [Premixes (as THR), Morning Snacks, Hot Cook Meal]	Moisture	IS 4684:1975 RA1983 (Page No 8)	0.5-35 g/100 g
		Ash	IS 4684:1975 RA1983 (Page No 11)	0.05 – 15g/ 100 g
		Acid Insoluble Ash	IS 4684:1975 RA1983 (Page No 12)	0.01 – 2.5 g/ 100 g
		Fat	IS 4684:1975 RA1983 (Page No 13)	0.05 – 70 g/100 g
		Protein	IS 4684:1975 RA1983 (Page No 9)	0.5 – 10g/ 100 g 10 – 60g/ 100 g
		Carbohydrate	SOP No. AL/SOP/C-036 (Issue No. : 01, Issue Date : 01-06-14)/ AOAC 986.25	0.1 to 99g/ 100 g
		Energy	SOP No. AL/SOP/C-035 (Issue No. : 01, Issue Date : 01-06-14)	1-900 kcal/100g
		Iron	AOAC 20 th EDITION, 2016 944.02	2.0 mg/kg – 100 mg/kg
		Vitamin C	IS 5838:1970 RA2005 (Page No 6)	1 mg – 50 mg / 100g
		Crude Fibre	IS 4684:1975 RA1983 (Page No 15)	0.2 to 10g/ 100 g
II.	WATER			
1.	Potable Water (Drinking Water, Packaged Drinking Water, Packaged Natural Mineral Water for Processed food industry)	pH	IS 3025(P-11): 1983, RA 2002 (Method No. 2.6)	4.0 to 10.0
		Colour	Cl.2.7 of IS-3025 (P-4): 1983, RA 2002 (Page No. 2)	1 to 10 colour unit
		Total dissolved solids	IS 3025(P-16): 1984, RA 2006 (Method No. 6)	10 to 2000 mg/l

Laboratory **Accurate Laboratory, E-17, Madhavpura Market, Shahibaug, Ahmedabad, Gujarat**

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

Certificate Number **TC-5021** *(in lieu of T-3317, T-3318)* **Page 17 of 17**

Validity **23.02.2017 to 22.02.2019** **Last Amended on 27.02.2017**

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Turbidity	IS 3025(P-10): 1984, RA 2002 (Method no. 7)	0.1 to 10 NTU
		Chloride (as Cl)	IS 3025(P-32): 1988, RA 2003 [Argentometric Method] (Method No. 2.5)	1.0 to 600 mg/l
		Alkalinity (as CaCO ₃)	IS 3025(P-23) : 1986, RA 2003 (Method No. 8)	1.0 to 600 mg/l
		Calcium (as Ca)	IS 3025(P-40) : 1991, RA 2003 (Method No. 5)	0.5 to 200 mg/l
		Magnesium (as Mg)	IS 3025(P-46) : 1994, RA 1999 (Page No.1)	0.1 to 500 mg/l
		Nitrate (as NO ₃)	IS:3025 (P-34)-1988 RA –2003 (Method No. 4)	1.0 to 50.0 mg/l
		Nitrite (as NO ₂)	IS:3025 (P-34)-1988 RA –2003 (Method No 4)	0.01 to 1.0 mg/l
		Sulphate (as SO ₄)	IS: 3025 (P-24) –1986 RA-2003 [Turbidity method] (Method No. 4)	0.5 to 250 mg/l
		Total Hardness (as CaCO ₃)	IS:3025 (P-21):2009, (Method No. 2)	0.5 mg/l to 600 mg/l
		Fluoride (as F)	IS 3025 (P-60):2008 (Method No. 5.6.1)	0.25 to 5 mg/l

NOTE: The Laboratory has demonstrated competence for the stated scope for **WATER**. This however does not fully cover the specification requirements of **BIS for the Packaged Drinking Water as per IS 14543 and the Packaged Natural Mineral Water IS 13428.**

Ajay Kumar Sharma
Convenor

N. Venkateswaran
Program Director