Envitro Laboratories Pvt. Ltd., 'Krushna Niwas', 6 Naval Nagar, Mavdi Main Road, Rajkot, Gujarat		
ISO/IEC 17025: 2005		
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1.07.2018 to 30.07.2020	Last Amended on	
	in Road, Rajkot, Gujarat D/IEC 17025: 2005 -7622	

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

BIOLOGICAL TESTING

Ι.	FOOD AND AGRICULTURAL PRODUCTS			
1.	Milk & Milk Products	Total Bacterial Count	IS 5402	≥10 CFU/g ≥1 CFU/ml
	(Raw Milk, Flavored milk, Milk Powder,	Coliform	IS 5401 (Part 1)	≥10 CFU/g ≥1 CFU/ml Absent/Present/g/ml
	Processed Milk)	E. coli	IS 5887 (Part 1)	Absent/Present/g/ml
2.	Carbonated	Total Bacterial Count	IS 5402	≥1CFU/mI
	Beverages	Coliform	IS 5401 (Part 1)	≥1 CFU/mI
	(Non–alcoholic)			Absent/Present/ml
		Yeast & Mould	IS 5403	≥ 1 CFU/ml
				Absent/Present/ml
3.	Snacks & Instant	Total Bacterial Count	IS 5402	≥10 CFU/g
	Mixes	Coliform	IS 5401 (Part 1)	Absent/Present/g
	(Namkeen)	E.coli	IS 5887(Part 1)	Absent/Present/g
		Yeast & Mould Count	IS 5403	≥10 CFU/g
II.	WATER			
1.	Drinking Water,	Coliform	IS 1622	Absent/Present/100 ml
	Ground Water	Coliform	IS 5401 (Part 2)	<0.3 to >110 MPN/mI
		E.coli	IS 1622	Absent/Present/100 ml
		E.coli	IS 5887 (Part 1)	<0.3 to >110 MPN/ml

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SI.	Product / Material	Specific Test	Test Met	hod Specification	Range of Testing /

51.	of Test	Performed	against which tests are performed	Limits of Detection
		CHEMICA	L TESTING	
I.	FOOD AND AGRICU	ILTURE PRODUCTS		
1.	Food Grains	Rodent Hair & Excreta	FSSAI Manual	Qualitative
	Cereals Pulses	Insect Infestation	FSSAI Manual	Qualitative
		Whole Insects, dead	FSSAI Manual	Qualitative
		Admixture	FSSAI Manual	Qualitative
		Added Coloring Matter	FSSAI Manual	Qualitative
		Foreign Matter / Extraneous Matter	IS 4333 (Part 1)	0.1% to 20%
		Mineral Matter and Inorganic Matter	FSSAI Manual	0.001% to 5%
		Damaged Grains	IS 4333 (Part 1)	0.1 % to 20 %
		Weeviled Grains	IS 4333 (Part 1)	0.1 % to 20 %
		Other edible grains	IS 4333 (Part 1)	0.1 % to 20 %
		Fat	IS 3579	2.0 % to 30 %
2.	Cereals Product	Microscopic Examination/	FSSAI Manual	Qualitative
	(Atta, Maida, Suji,	Foreign Starch		
	Besan, Fortified	Total Ash	FSSAI Manual	0.05 % to 10 %
	Atta, Paushtikatta)	Ash insoluble in dilute HCL	FSSAI Manual	0.01 % to 2.0 %
	-	Alcoholic Acidity expressed as H ₂ SO ₄	FSSAI Manual	0.05 % to 0.5 %
		Gluten	FSSAI Manual	2 % to 20 %
		Protein	FSSAI Manual	0.5 % to 60 %
		Crude Fiber	FSSAI Manual	0.1 % to 20 %
		Fat	IS 4684	0.1 % to 20 %
3.	Fruit Products	рН	IS 2860	1 to 14
	(Sauces, Ketchup,	Total Soluble Solids(Brix)	IS 5861	0.5 % to 100 %
	Jam, Jelly, Juices,	Titratable Acidity	IS 2860	0.05% to 5.0%
	Beverages, Pulp,	Total Sugars	FSSAI Manual	0.5 % to 95 %
	Puree)	Reducing Sugar	FSSAI Manual	0.5 % to 95 %

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Laboratory	Envitro Laboratories Pvt. Ltd., 'Krushna Niwas', 6 Naval Nagar, Mavdi
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SI Product / Material	Specific Test	Test Method Specification Range of Test

SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Added Sugar	FSSAI Manual	0.5 % to 95 %
4.	Iodized Salt/	Water insoluble matter	IS 7224, IS 253	0.1 % to 5 %
	Vacuum	Chloride	IS 7224, IS 253	90 % to 100 %
	Evaporated lodized	Calcium	IS 7224	0.01 % to 1 %
	Salt /Refined	Magnesium	IS 7224	0.01 % to 1 %
	Iodized Salt/ Edible	Sulphate	IS 7224	0.1 % to 2 %
	Common Salt	lodine	IS 7224	5 mg/kg to 100 mg/kg
		Alkalinity	IS 7224	0.02 % to 0.5 %
5.	Spices,	Excreta Mammalian	ASTA's Analytical Methods	Qualitative
	Condiments	Excreta, Others	ASTA's Analytical Methods	Qualitative
	(Whole, Powder & Mix Masala)/ Dehydrated	Extraneous (Organic & Inorganic)/ Foreign Matter	ASTA's Analytical Methods	Qualitative
	Onion/ Asafoetida/	Insect Infested/ defiled	ASTA's Analytical Methods	Qualitative
	Compounded	Whole Insects, dead	ASTA's Analytical Methods	Qualitative
	Asafoetida	Rodent Hair & Contamination	FSSAI Manual ASTA's Analytical Methods	Qualitative
		Foreign starch	IS 7807	Qualitative
		Lead Chromate Test	FSSAI. Manual No.10	Qualitative
		Unripe & Marked Fruits	ASTA's Analytical Methods	1 % to 10 %
		Broken Fruits, seed & Fragments/Split Fruits	ASTA's Analytical Methods	1 % to 15 %
		Damaged / Discoloured Fruits	ASTA's Analytical Methods	1 % to 10 %
		Moisture	FSSAI. Manual	0.1 % to 20 %
		Total ash	FSSAI. Manual	0.1 % to 25 %
		Acid insoluble ash	FSSAI. Manual	0.1 % to 10 %
		Alcoholic Soluble extract	FSSAI. Manual	1 % to 80 %
		Crude fibre	FSSAI. Manual IS 1797	1 % to 50 %
		Non Volatile Ether Extract	FSSAI. Manual; IS 1797	1 % to 50 %
		Volatile oil contents	FSSAI. Manual	0.05 % to 25 %

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SI. Product / Material	Specific Test	Test Method Specification Range of Testing /	-

SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
6.	Milk Products Ghee	Test for Rancidity (Analysis by peroxide value)	FSSAI. Manual	Qualitative
		Baudouin Test	IS 3508	Qualitative
		B.R at 40°C / B.R. at 40°C of extracted Fat	IS 3508	30 to 70
		R.M. Value / R.M. Value of Extracted Fat	IS 3508	0.5 to 35
7	Oil, (Edible Oils &	Rancidity	FSSAI. Manual	Qualitative
	Sunflower Oil, Rice Bran Oil,	Butyro-refractometer reading at 40 °C	IS 548 (Part 1)	30 to 70
	Groundnut Oil,	Refractive index	IS 548 (Part 1)	1.3 to 1.8
	Cottonseed Oil, Mustard Oil	Moisture & Volatile matter	FSSAI. Manual	0.01 % to 5 %
	Sesame Oil,	Free fatty acid	FSSAI. Manual	0.01 % to 10 %
	Maize (Corn Oil),	Acid value	FSSAI. Manual	0.1 to 20
	Palmolein Oil, Palm Kernal Oil,	Saponification value	FSSAI. Manual	10 to 300
	Blended Oil)	lodine value	FSSAI. Manual	1 to 200
	Dielided Olij	Unsaponifiable matter	FSSAI. Manual	0.1 % to 5 %
		Peroxide value	FSSAI. Manual	0.5 mEq/kg to 50 mEq/kg
II.	WATER			
1.	Drinking Water, Ground & Surface	Colour	IS 3025 (Part 4)	1 Hazen to 10 Hazen unit
·	Water	Odour	IS 3025 (Part 5)	Qualitative (Agreeable/ Disagreeable)
		Turbidity	IS 3025 (Part 10)	0.1 NTU to 10 NTU
		Total dissolved solids	IS 3025 (Part 16)	5 mg/l to 100 mg/l 100 mg/l to 1000 mg/l
		рН	IS 3025 (Part 11)	2 to 12

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SI. Product / Material	Specific Test	Test Method S	Specification Range of Testing /

SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Chloride (as Cl)	IS 3025 (Part 32)	1 mg/l to 50 mg/l
				50 mg/l to 500 mg/l
		Alkalinity	IS 3025 (Part 23)	1 mg/l to 20 mg/l
		<u> </u>		20 mg/l to 500 mg/l
		Calcium (as Ca)	IS 3025 (Part 40)	1 mg/l to 10 mg/l
				10 mg/l to 500 mg/l
		Magnesium (as Mg)	IS 3025 (Part 46)	10 mg/l to 30 mg/l
		Residual Free Chlorine	IS 3025 (Part 26)	0.05 mg/l to 5.0 mg/l
		Nitrate (as NO ₃)	IS 3025 (Part 34)	1 mg/l to 50 mg/l
		Nitrite (as NO ₂)	IS 3025 (Part 34)	0.01 mg/l to 1 mg/l
		Sulphide (as H ₂ S)	IS 3025 (Part 29)	0.05 mg/l to 5 mg/l
		Phenolic Compounds	IS 3025 (Part 43)	0.1 mg/l to 5 mg/l
		Sulphate	IS 3025 (Part 24)	0.5 mg/l to 500 mg/l
		Fluoride	IS 3025 (Part 60)	0.25 mg/l to 1 mg/l
		Conductivity	IS 3025 (Part 14)	0.1 µS/cm to 10 µS/cm,
				10 µS/cm to 100 µS/cm
				>100 µS/cm
		COD	IS 3025 (Part 58)	5 mg/l to 200000 mg/l
		BOD	IS 3025 (Part 44)	5 mg/l to 10000 mg/l
		DO	IS 3025 (Part 38)	0.2 mg/l to 20 mg/l
•••••		Ammonical Nitrogen	IS 3025 (Part 34)	0.3 mg/l to 1400 mg/l
•••••		Iron	IS 3025 (Part 53)	0.075 mg/l to 0.5 mg/l
		Sodium	IS 3025 (Part 45)	0.5 mg/l to 300 mg/l
•••••		Potassium	IS 3025 (Part 45)	0.5 mg/l to 100 mg/l
111.	POLLUTION & ENV	RONMENT		······································
1.	Waste Water (Effluent/ Sewage)	Color	IS 3025 (Part 4)	1 Hazen to 10 Hazen unit
		Total dissolved solids	IS 3025 (Part 16)	5 mg/l to 100 mg/l 100 mg/l to 1000 mg/l 1000 mg/l to 5000 mg/l
•••••		рН	IS 3025 (Part 11)	2 to 12
		Chloride (as Cl)	IS 3025 (Part 32)	1 mg/l to 50 mg/l 50 mg/l to 500 mg/l

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SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Sulphide (as H ₂ S)	IS 3025 (Part 29)	0.05 mg/l to 5 mg/l
		Phenolic Compounds	IS 3025 (Part 43)	0.1 mg/l to 5 mg/l
		Sulphate	IS 3025 (Part 24)	0.5 mg/l to 500 mg/l
		COD	IS 3025 (Part 58)	5mg/l to 200000 mg/l
		BOD	IS 3025 (Part 44)	5 mg/l to 10000 mg/l
		Ammoniacal Nitrogen	IS 3025 (Part 34)	0.3 mg/l to1400 mg/l
		Suspended Solids	IS 3025 (Part 17)	5 mg/l to 10000 mg/l
		Oil & Grease	IS 3025 (Part 39)	1 mg/l to 1000 mg/l
IV.	SOIL			
1.	Soil	рН	IS 2720 (Part 26)	2 to 12
		Electrical Conducvity	IS 14767	0.1 mS/cm ² to 10 mS/cm ² , 10 mS/cm ² to 10000 mS/cm ²
		Total Nitrogen	IS 14684	100 mg/kg to 20000 mg/kg