

<b>Laboratory</b>	<b>Auriga Research Ltd., Vill. Bagbania, The-Nalagarh, Distt-Solan, Himachal Pradesh</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Biological Testing</b>	<b>Issue Date</b>	<b>26.11.2014</b>
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<b>S. No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
<b>I.</b>	<b>FOOD &amp; AGRICULTURAL PRODUCTS</b>			
<b>1.</b>	<b>Dairy Products</b>			
	<b>Condensed milk/ partly skimmed/ skimmed</b>	Total Plate Count	IS 5402: 2012/ DGHS Manual 14	≥ 1 CFU/ ml ≥ 10 CFU/gm
	<b>condensed milk, Dairy whitener, Dahi, Cheese, hard/processed, spread, Ice cream/ ice cream dry mix/ ice cream frozen desert/ ice candy, Malted milk food, Malt extract, Milk powder, partly skimmed/ whey powder, Milk</b>	Coliform Count	IS 5401 (Part 1): 2002/ DGHS Manual 14	≥ (10 CFU to 10 <sup>5</sup> CFU)/ gm or ml
		Yeast & Mould Count	IS 5403:1999 (RA 2005) / DGHS Manual 14	≥ 1 CFU/ ml ≥10 CFU/gm
		Staphylococcus aureus (Coagulase positive)	IS 5887 (Part 2): 1976 (RA 2005) DGHS Manual 14	Qualitative (Present / Absent/gm or ml)
		E. coliform	IS 5887(Part 1): 1976 (RA 2005) DGHS Manual 14	Qualitative (Present / Absent /gm or ml)

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	<b>Paneer, Sweetened condensed Milk UHT, Casein edible, Milk sterilized, Whole Milk Powder, Butter Pasteurized, Butter oil, Infant Foods, Infant milk, Baby Food, Weaning Food, milk based complementary food.</b>	Salmonella	IS 5887(Part 3):1999 (RA 2005) DGHS Manual 14	Qualitative (Present / Absent / 25gm)
		Shigella	IS 5887 (Part 7): 1999 (RA 2005) DGHS Manual 14	Qualitative (Present / Absent / 25gm)
		Listeria Spp.	IS14988 (Part 1 & 2): 2001/2002 DGHS Manual 14	Qualitative (Present / Absent /25 gm)
<b>2.</b>	<b>Beverages ( Alcoholic / Non-Alcoholic )</b>			
	<b>Soft Drinks / Non- Alcoholic Beverages / Alcoholic Beverages / vinegars / carbonated Water</b>	Total Plate Count	IS 5402: 2012 / DGHS Manual 14	$\geq 1$ CFU/ ml $\geq 10$ CFU/gm
		Yeast & Mould Count	IS 5403: 1999 / DGHS Manual 14	$\geq 1$ CFU/ ml $\geq 10$ CFU/gm
		Detection of Escherichia Coliform	IS 5887 (Part 1): 1976 (RA 2005) DGHS Manual 14	Qualitative (Present/ absent per X ml)
		Enumeration of Coliform (MPN)	IS 5401 (Part 2): 2012	0.3 MPN/ml to > 110 MPN/ml
		Detection of Listeria spp.	IS 14988 ( Part 1): 2001 DGHS Manual 14	Qualitative (Present/ absent per X ml)

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	<b>Soft Drinks / Non- Alcoholic Beverages / Alcoholic Beverages / vinegars / carbonated Water</b>	Detection of <i>Vibrio Cholerae</i> & <i>Vibrio Parahaemolyticus</i>	IS 5887 (Part 5): 1976 DGHS Manual 14	Qualitative (Present / Absent /25 ml)
		Detection of Enterobacteriaceae	IS 7402: 1993 / DGHS Manual 14	Qualitative (Present / Absent per X gm)
		<i>Staphylococcus Aureus</i>	IS 5887 (Part 2): 1976 (RA 2005)	Qualitative (Present / Absent /ml/gm)
		<i>Salmonella</i>	IS 5887 (Part 3): 1999 (RA 2005) DGHS Manual 14	Qualitative (Present / Absent /25 ml/25 gm)
		<i>Shigella</i>	IS 5887 (Part 7): 1999 (RA 2005) DGHS Manual 14	Qualitative (Present / Absent /25gm)
<b>3.</b>	<b>Fish , Meat and Egg products</b>			
	<b>Fish and Fish product, Meat and Meat product, Egg and Egg product</b>	Total Plate Count	IS 5402: 2012 / DGHS Manual 14	≥1 CFU/ ml ≥10 CFU/gm
		Yeast and Mold	IS 5403:1999/ DGHS Manual 14	≥1 CFU/ ml ≥10 CFU/gm
		Detection of <i>Escherichia coli</i>	IS 5887 (Part 1):1976 (RA 2005) DGHS Manual 14	Qualitative (Present/ Absent per X g)
		Enumeration of Coliform	IS:5401 (Part 1):2002/ DGHS Manual 14	≥1 CFU/ gm
		Detection of <i>Staphylococcus aureus</i>	IS 5587 (Part 8): 2002/ IS 5887 (Part 2): 1976 (RA 2005)	Qualitative (Present/ Absent per x gm)

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	<b>Fish and Fish product, Meat and Meat product, Egg and Egg product</b>	Detection of Salmonella	IS 5887(Part 3): 1999/ DGHS Manual 14	Qualitative (Present/Absent per x 25g)
		Detection of Shigella	IS 5887 (Part 7): 1999/ DGHS Manual 14	Qualitative (Present/Absent per 25g)
		Detection of Listeria Spp.	IS 14988 (Part 1): 2001/ DGHS Manual 14	Qualitative (Present/Absent per 25g)
		Detection of Enterobacteriaceae	IS 7402: 1993/ DGHS Manual 14	Qualitative (Present /Absent per x g)
<b>4.</b>	<b>Spices &amp; Condiments</b>			
	<b>Spice and Condiments</b>	Total Plate Count	IS 5402: 2012 / DGHS Manual 14	≥ 1 CFU/ ml ≥ 10 CFU/gm
		Yeast and Mold	IS 5403: 1999/ DGHS Manual 14	≥ 1 CFU/ ml ≥ 10 CFU/gm
		Detection of Escherichia coli	IS 5887 (Part 1): 1976 (RA 2005) DGHS Manual 14	Qualitative (Present/Absent per x g)
		Detection of Salmonella	IS 5887(Part 3): 1999	Qualitative (Present/Absent per 25 g)
<b>5.</b>	<b>Cereals, Pulses &amp; Cereal Products/Nuts and nut products/Oil seeds/Tea/Coffee</b>			
	<b>Raw, semi processed and ready to eat</b>	Detection of Escherichia coli	IS 5887 (Part 1): 1976 (RA 2005) DGHS Manual 14	Qualitative (Present/Absent per x g or ml)
		Detection of Salmonella	IS 5887(Part 3): 1999 / DGHS Manual 14	Qualitative (Absent/Present per 25g)
		Detection of Shigella	IS 5887 (Part 7):1999/ DGHS Manual 14	Qualitative (Absent/Present per 25 gm)

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	<b>Raw, semi processed and ready to eat</b>	Total Plate Count	IS 5402: 2012 / DGHS Manual 14	≥ 1 CFU/ ml ≥ 10 CFU/gm
		Enumeration of Coliform	IS 5401 (Part 1): 2002/ DGHS Manual 14	≥ 1 CFU/ gm
		Yeast and mould	IS 5403: 1999/ DGHS Manual 14	≥ 1 CFU/ ml ≥ 10 CFU/gm
		Detection of S.aureus	IS 5587 (Part 8): 2002/ IS 5887 (Part 2): 1976 (RA 2005)	Qualitative (Absent /present per x gm)
<b>6.</b>	<b>Fruits and vegetables</b>			
	<b>Jam, Jellies &amp; Juices and Ready to eat</b>	Yeast & Spores	AOAC 955.47	≥1 CFU/ ml ≥10 CFU/gm
		Staphylococcus aureus	IS 5887(Part 2): 1976 (RA 2005)	Qualitative (Present/Absent per gm)
		Salmonella	IS 5887 (Part 3): 1999 (RA 2005)	Qualitative (Present/Absent per 25 gm)
		Shigella	IS 5887 (Part 7): 1999 (RA 2005)	Qualitative (Present/Absent per 25 gm)
		E.coli	IS 5887 (Part 1): 1976 (RA 2005)	Qualitative (Present/Absent per gm)
		Vibrio cholerae	IS 5887 (Part 5): 1976 (RA 2005)	Qualitative (Present/Absent per 25 gm)
		Total Plate Count	IS 5402: 2012	≥1 CFU/ ml ≥10 CFU/gm

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<b>II. WATER</b>				
1.	Drinking water/Ice water	Coliform	IS 1622: 1981 Amd. 1-4	(2 MPN to 1600 MPN)/100ml
		E.coli	IS 1622: 1981 Amd. 1-4	Qualitative (Present /Absent/100 ml)
2.	Packaged Drinking water (Other than Packaged Natural Mineralwater)	Total Viable Colony Count, At 37°C for 24 hours	IS 5402: 2012	≥ 1 CFU/ ml
		At 22°C for 72 hours		≥ 1 CFU/ ml
		Yeast & Mould	IS 5403: 1999 (RA 2005)	Qualitative (Present/absent per 250ml)
		E.coli	IS 5887 (Part 1): 1976	Qualitative (Present/absent per 250ml)
		Coliform	IS 5401 (Part 2): 2012	Qualitative (Present/absent per 250ml)
		Faecal Streptococcus	IS 15186: 2002	Qualitative (Present/absent per 250ml)
		Staphylococcus Aureus	IS 5887 (Part 2): 1976 (RA 2005)	Qualitative (Present/absent per 250ml)
		Pseudomonas Aeruginosa	IS 13428: 2011, Annexure D	Qualitative (Present/absent per 250ml)
	Salmonella Spp.	IS 15187: 2002	Qualitative (Present/absent per 250ml)	

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	<b>Packaged Drinking Water (Other than Packaged Natural Mineral Water)</b>	Shigella Spp.	IS 5887 (Part 7): 1999 (RA 2005)	Qualitative (Present/absent per 250ml)
		Vibrio Cholera	IS 5887 (Part 5): 1976 (RA 2005)	Qualitative (Present/absent per 250ml)
		Vibrio Parahaemolyticus	IS 5887 (Part 5): 1976 (RA 2005)	Qualitative (Present/absent per 250ml)
<b>3.</b>	<b>Packaged Natural Mineral Water</b>	E.coli	IS 5887 (Part 1): 1976 (RA 2005)	Qualitative (Present/absent per 250ml)
		Coliform	IS 5401 (Part 1 and 2): 2012	Qualitative (Present/absent per 250ml)
		Faecal streptococci	IS 15186: 2002	Qualitative (Present/absent per 250ml)
		Sulphite reducing anaerobes	IS 13428: 2011 Amd. 1-4 Annexure C	Qualitative (Present/absent per 50ml)
		Pseudomonas aeruginosa	IS 13428: 2011 Amd. 1-4 Annexure C	Qualitative (Present/absent per 250ml)
		Staphylococcus aureus	IS 5887 (Part 2): 1976 (RA 2005)	Qualitative (Present/absent per 250ml)
		Yeast & Mould	IS 5403: 1999 (RA 2005)	Qualitative (Present/absent per 250ml)

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	<b>Packaged Natural Mineral Water</b>	Salmonella spp.	IS 15187: 2002	Qualitative (Present/ Absent per 250ml)
		Shigella spp.	IS 5887 (Part 7): 1999 (RA 2005)	Qualitative (Present/absent per 250ml)
		Vibrio Cholera	IS 5887 (Part 5): 1976 (RA 2005)	Qualitative (Present/absent per 250ml)
		V.parahaemolyticus	IS 5887 (Part 5): 1976 (RA 2005)	Qualitative (Present/absent per 250ml)
<b>4.</b>	<b>Quality Tolerance for Water for Processed Food Industry</b>	Thermophilic Bacteria Count	IS 4251: 2004, Appendix B Amd. 1-2	≥1 CFU/ ml
		Slime Forming Bacteria	IS 1622: 1981 Amd. 1-4 2003	Qualitative (Present/ Absent)
		E.coli	IS 5887 (Part 1): 1976 (RA 2005)	Qualitative (Present/ Absent per g)
		Coliform Bacteria, MPN Index per 100 ml	IS 1622: 1981 (RA 2003)	(1 MPN to 1600 MPN)/100ml
		Standard Plate Count	IS1622: 1981 (RA 2003)	≥ 1 CFU/ ml
	Proteolytic and Lipolytic organism, Combined Count/ml	IS 4251: 2004 (RA 1992)	≥ 1 CFU/ ml	

### III. ENVIRONMENT AND POLLUTION

**Bhumi Rajyaguru**  
Convenor

**N. Venkateswaran**  
Program Manager



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<b>1.</b>	<b>Effluents/Waste Water</b>			
	<b>Waste Water/ Sewage Water/ Etp (In Let/ Out Let)/ Stp (In Let/ Out Let)/ Cooling Tower Water/ Farm Water (Irrigation Water)/ Pond Water/ River Water And Other Types Of Polluted Water</b>	Aerobic microbial count/ Standard Plate count/ Total plate count/ Heterotrophic plate count Coliform/ Total Coliform	APHA (22 <sup>nd</sup> Edition) 9215	≥ 1 CFU/ ml
		Coliform (MFT)	APHA (22 <sup>nd</sup> Edition) 9221-B	(1.8 MPN to 1600 MPN) /100 ml Multiplied by the Dilution factor
		Coliform (MFT)	APHA (22 <sup>nd</sup> Edition) 9222-B	1 CFU to 200 CFU / Volume filtered
		Faecal Coliform (MFT)	APHA (22 <sup>nd</sup> Edition) 9222-D/ IS 1622: 1981 (RA 2003)	1 CFU to 200 CFU / volume filtered
		E. coli	APHA (22 <sup>nd</sup> Edition) 9221 F & G	(1.8 MPN to 1600 MPN) /100 ml Multiplied by the Dilution factor
		E. coli (MFT)	APHA (22 <sup>nd</sup> Edition) 9222/ IS 15185: 2002	1 CFU to 200 CFU / Volume filtered
<b>2.</b>	<b>Bio-burden by surface swab method</b>			
	<b>Swab Testing of Equipments, Food Handlers, Linen, Cooking Platforms, Cooking Accessories, Workers.</b>	Bacterial Count	IS 5402: 2012 ARLB/MC/SOP-050, Issue no. 01 & Issue Date 28-10-2013)	≥1 CFU/ 25 sqcm
		Yeast & Mould Count	IS 5403: 1999 In house Method: ARLB/MC/SOP-050 Issue no. 01 & Issue Date 28-10-2013	≥1 CFU/ 25 sqcm

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	<b>Swab Testing of Equipments, Food Handlers, Linen, Cooking Platforms, Cooking Accessories, Workers.</b>	Coliform Count	IS 5401(Part 1): 2002 In house Method: ARLB/MC/SOP-050 Issue no. 01 & Issue Date 28-10-2013	≥ 1 CFU/ 25 sqcm
		E. coli count,	IS 5887 (Part 1): 1976 In house Method: ARLB/MC/SOP-050 Issue no. 01 & Issue Date 28-10-2013	≥ 1 CFU/ 25 sqcm
		S. Aureus Count	IS 5887 (Part 2): 1976 In house Method: ARLB/MC/SOP-050 Issue no. 01 & Issue Date 28-10-2013	≥ 1 CFU/ 25 sqcm
<b>3.</b>	<b>Settle Plate</b>			
	<b>Factory Locations, units, Storehouses, Dairies, kitche, Any food Handling Locations Factory Locations, units, Storehouses, Dairies, kitche, Any food Handling Locations</b>	Bacterial Count,	IS 5402: 2012 (By settle plate method) In house Method: ARLB/MC/SOP-051 Issue no. 01 & Issue Date 29-10-2013	≥ 1 CFU / plate / duration of exposure
		Yeast & Mould Count,	IS 5403: 1999 (By settle plate method) In house Method: ARLB/MC/SOP-051 Issue no. 01 & Issue Date 29-10-2013	≥ 1 CFU / plate / duration of exposure

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	<b>Factory Locations, units, Storehouses, Dairies, kitche, Any food Handling Locations</b>	Coliform Count	IS 5401(Part 1): 2002 (By settle plate method) In house Method: ARLB/MC/SOP-051 Issue no. 01 & Issue Date 29-10-2013	≥ 1 CFU / plate / duration of exposure
	<b>Factory Locations, units, Storehouses, Dairies, kitche, Any food Handling Locations</b>	E. coli Count,	IS 5887 (Part 1): 1976 (By settle plate method) In house Method: ARLB/MC/SOP-051 Issue no. 01 & Issue Date 29-10-2013	≥ 1 CFU / plate / duration of Exposure
	<b>Factory Locations</b>	S. Aureus Count	IS: 5887 (Part 8/ Sec I): 1976 (By settle plate method) In house Method: ARLB/MC/SOP-051 Issue no. 01 & Issue Date 29-10-2013	≥ 1 CFU / plate / duration of Exposure

#### **IV. DRUGS AND PHARMACEUTICALS**

##### **1. Surgical dressing and Medical accessories**

<b>Medical devices, IV Cannula, Catheter, disposable syringes, In vitro diagnostic, device</b>	Bioburden	ISO 11737-1: /USP	≥1 CFU/ ml ≥10 CFU/gm
	Sterility	ISO 11737-2:/USP	Complies /Does not comply

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<b>2.</b>	<b>Microbial limit test</b>			
	<b>Finished Pharmaceutical Preparation, Tablet, Capsule, Dry Syrup, Liquid Syrup, Sachet, Bolus, inhalation preparation, Cream, Ointment, Purified Water</b>	Staphylococcus aureus	IP 2014 , Vol 1 Page – 38,45 & 46	Qualitative (Present/ absent/ per x ml or gm)
		Ecoli		Qualitative (Present/ absent/ per x ml or gm)
		Pseudomonas aeruginosa		Qualitative (Present/ absent/ per x ml or gm)
		Salmonella		Qualitative (Present/ absent/ per x ml or gm)
		Shigella		Qualitative (Present/ absent/ per x ml or gm)
		Total Viable Aerobic count		≥ 1 CFU/ ml ≥ 10 CFU/gm
		Total yeast and mold count		≥ 1 CFU/ ml ≥ 10 CFU/gm

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	Pharmaceutical sterile preparation , Liquid injection, Dry injection, Ophthalmic Preparations, Raw material, Water for injection	Sterility	IP 2014 Page 59	Qualitative (Comply/does not comply)
	Pharmaceutical sterile preparation , Liquid injection, Dry injection, Raw material, Water for injection	Bacterial Endotoxin	IP 2014 Page 28	Qualitative (Comply/does not comply)
3.	<b>Antibiotics (Finished Product)</b>			
	Gentamycin sulphate Injection IP	Assay	IP 2014 Page-1859	(200 mcg to 850 mcg)/mg

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<b>S. No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
<b>4.</b>	<b>Ayurvedic Drugs</b>			
	<b>Ayurvedic Herbal Tablet, Capsule &amp; Syrup</b>	Staphylococcus aureus	API Vol-II (Part 2) Page – 184	Qualitative (Present/absent /gm)
		Salmonella sp/gm	API Vol-II (Part 2) Page -184	Qualitative (Present/absent /gm)
		Pseudomonas aeruginosa/gm	API Vol-II (Part 2) Page -184	Qualitative (Present/absent /gm)
		Escherichia coli	API Vol-II (Part 2) Page -184	Qualitative (Present/absent /gm)
		Total microbial plate count (TPC)	API Vol-II (Part 2) Page -184	≥ 1 CFU/ ml ≥ 10 CFU/gm
		Total yeast & mould	API Vol-II (Part 2) Page -184	≥ 1 CFU/ ml ≥ 10 CFU/gm
<b>V.</b>	<b>COSMETICS AND ESSENTIAL OILS</b>			
<b>1.</b>	<b>Cosmetics &amp; Essential Oils, Skin Creams and Lotions, Shaving Creams, Shaving Gel, Hair Oil, Tooth Paste,</b>	Total Viable Count	IS 14648: 2011	≥ 1 CFU/ ml ≥ 10 CFU/gm
		Gram Negative Pathogen	IS 14648: 2011	Qualitative (Present /Absent/gm)

-X-X-X-X-X-X-X-X-X-X-X-X-