

Laboratory	Geo-Chem Laboratories (P) Ltd., Pragati Building, Near Crompton Greaves, Kanjur Marg (E), Mumbai, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Biological Testing	Issue Date	15.05.2014
Certificate Number	T-0570	Valid Until	14.05.2016
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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
I. FOODS AND AGRICULTURAL PRODUCTS				
1	Animal Feeds, Bakery & Confectionery Products, Beverages (Alcoholic / Non-Alcoholic), Canned & Processed Foods, Cereals, Pulses & Cereal Products, Coffee & Cocoa Products, Edible Colours & Flavours, Edible Oils & Fats, Eggs & Egg Products, Essential Nutrients Including Vitamins, Fish & Sea Foods, Food Additives & Preservatives, Fruit & Fruit Products, Gelatin and Other Gums, Genetically	<i>E. coli</i>	BAM 8 th Edition, Revision A, Chapter 4 IS 5887 (Pt 1) : 1976	MPN < 3 - >1100/ gm or ml Presence/Absence/ 25 gm or ml MPN < 0.3 - 110 / gm or ml 1 –10 ⁷ CFU/ ml 10 – 10 ⁷ CFU / gm
		Coliform Bacteria	IS 5401 (Pt 1) : 2012 / ISO 4832:2006	1 –10 ⁷ CFU/ ml 10 – 10 ⁷ CFU / gm Presence/Absence/ 0.1-1 gm (or) ml
			IS 5401 (Pt 2) 2012 / ISO 4831:2006	MPN < 0.3 - >110 / gm (or) ml
			BAM 8 th Edition, Revision A, Chapter 4	1 –10 ⁷ CFU/ ml 10 – 10 ⁷ CFU / gm
		<i>Staphylococcus aureus</i>	IS 5887 (Pt 2) : 1976	Presence/Absence/ 25 gm (or) ml 1 –10 ⁷ CFU/ ml 10 – 10 ⁷ CFU / gm
			IS 5887 (Pt. 8/Sec 1):2002 / ISO 6888-1:1999	1 –10 ⁷ CFU/ ml 10 – 10 ⁷ CFU / gm

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	Modified Foods and agricultural products, Herbs, Spices & Condiments, Honey & Honey Products, Infant Foods Jams, Juices, Sauces & Concentrates, Meat & Meat Products, Milk & Dairy Products, Natural Waxes, Nutritional Supplements, Nuts & Nut Products, Oil Seeds & By-Products, Pet Foods, Poultry & Poultry Products, Starch & Starch Products, Sugar & Sugar Products, Snacks and Instant Mixes,		BAM 8 th Edition, Revision A, Chapter 12	1 – 10 ⁷ CFU/ ml 10 – 10 ⁷ CFU / gm
			BAM 8 th Edition, Revision A, Chapter 12	MPN < 3 - > 1100 / gm (or) ml
		<i>Clostridium perfringens</i> & <i>Clostridium botulinum</i>	IS 5887 (Pt 4) :1999 BAM 8 th Edition, Revision A, Chapter 16	Presence/Absence / 25gm (or) ml
			IS 5887 (Pt 4) : 1999 BAM 8 th Edition, Revision A Chapter 16	1 – 10 ⁷ CFU/ ml 10 – 10 ⁷ CFU / gm
		Sulphite-reducing clostridium	ISO 15213 : 2003	1 – 10 ⁷ CFU/ ml 10 – 10 ⁷ CFU / gm
		Aerobic Microbial Count / Total Plate Count/ Bacterial Count / Total Viable Count	IS 5402:2012 / ISO 4833 : 2003 BAM 8 th Edition, Revision A, Chapter 3	1 – 10 ⁷ CFU/ ml 10 – 10 ⁷ CFU / gm 1 – 10 ⁷ CFU/ ml 10 – 10 ⁷ CFU / gm
		Yeast & Mould	IS 5403: 1999	1 – 10 ⁷ CFU/ ml 10 – 10 ⁷ CFU / gm
			BAM 8 th Edition, Revision A, Chapter 18	1 – 10 ⁷ CFU/ ml 10 – 10 ⁷ CFU / gm
		Yeast & Spores	AOAC 945.96	Presence /Absence

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	Tea, Tobacco & Tobacco Products, Vegetables & Vegetable Products, Other Specified Food Items, Ready to Eat food	Salmonella	IS 5887 (Pt 3) :1999 ISO 6579 : 2002 BAM 8 th Edition, Revision A , Chapter 5	Presence/Absence/ 25gm (or) ml Presence/Absence/ 25 gm (or) ml
		Shigella	IS 5887 (Pt 7) :1999 BAM 8 th Edition, Revision A, Chapter 6	Presence/Absence/ 25gm (or)ml Presence/Absence/ 25gm (or)ml
		<i>Bacillus cereus</i>	IS 5887(Pt 6) : 2012 / ISO 7932:2004 BAM 8 th Edition, Revision A, Chapter 14	1 –10 ⁷ CFU/ ml 10 – 10 ⁷ CFU / gm 1 –10 ⁷ CFU/ ml 10 – 10 ⁷ CFU / gm
		<i>Vibrio cholerae & Vibrio parahaemolyticus</i>	IS 5887 (Pt 5) : 1976 BAM 8 th Edition, Revision A, Chapter 9	Presence/Absence/ 25gm (or) ml Presence/Absence/ 25gm (or) ml
		Faecal Coliform	BAM 8 th Edition, Revision A, Chapter 4	MPN < 3 - >1100/ gm (or) ml
		Faecal Streptococci	IS 5887 (Pt 2) : 1976	Presence/Absence/ 25gm (or) ml

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		<i>Listeria monocytogens</i>	BAM 8 th Edition, Revision A, Chapter 10 IS 14988 (Pt. 1) : 2001 ISO 11290-1 : 1996 IS 14988 (Pt. 2) : 2002 ISO 11290-2 : 1998	Presence/Absence/ 25gm (or) ml Presence/Absence/ 25gm (or) ml 1 – 10 ⁷ cfu/ml 10 – 10 ⁷ CFU / gm
		Enterobacteriaceae	IS / ISO 7402 :1993	1 –10 ⁷ CFU/ ml 10 – 10 ⁷ CFU / gm MPN < 0.3 - > 110/ gm (or) ml
		<i>Pseudomonas aeruginosa</i>	BP-2013/IP-2010	Presence/Absence/ gm (or) ml - 25gm (or) ml
		Beta-lactum (Milk & Milk Products)	Delvo Kit Method	Presence/Absence
		Thermophilic Count (Milk)	IS 1479 (Pt:3) : 1977	1 –10 ⁷ CFU/ ml 10 – 10 ⁷ CFU / gm
		Psychrophilic Count (Milk)	IS 1479 (Pt:3) : 1977	1 –10 ⁷ CFU/ ml 10 – 10 ⁷ CFU / gm
		Anaerobic Bacteria (Milk)	IS 1479 (Pt:3) : 1977	Presence/Absence/10 ml

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2.	Ispaghulla seed & Husk (Psyllium seed & husk)	<i>E. coli</i>	BP-2013/IP-2010 BAM 8 th Edition, Revision A, Chapter 4 IS 5887 (Pt 1) : 1976	Presence/Absence/ gm (or) ml- 25gm (or) ml MPN < 3 - > 1100/gm Presence/Absence /25gm MPN < 0.3 -110 /gm 10-10 ⁷ CFU /gm
		<i>Staphylococcus aureus</i>	BP-2013/IP-2010 IS 5887 (Pt 2) : 1976 IS 5887 (Pt 8/Sec 1) : 2002 / ISO 6888-1:1999	Presence/Absence/ gm (or) ml- 25gm (or) ml Presence/Absence / 25 gm 10-10 ⁷ CFU /gm
		<i>Clostridium perfringens</i>	BP-2013/ IP-2010 IS 5887 (Pt 4) : 1999 BAM 8th Edition, Revision A Chapter 16 IS 5887 (Pt 4) : 1999 BAM 8th Edition, Revision A Chapter 16	Presence/ Absence/ 25 gm Presence/Absence / 25 gm Presence/Absence / 25 gm 10-10 ⁷ CFU /gm 10-10 ⁷ CFU /gm
		Salmonella	BP-2013/IP-2010 IS 5887 (Pt 3) : 1999 ISO 6579 : 2002 BAM 8th Edition, Revision A Chapter 5	Presence/Absence/25gm Presence / Absence/ 25gm Presence / Absence/ 25 gm

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	Ispaghulla seed & Husk (Psyllium seed & husk)	Enterobacteriaceae	BP-2013/IP 2010	Presence/ Absence / 25 gm MPN <10 - >10 ³ / gm
		Total Plate Count	BP-2013/IP-2010 IS 5402 : 2012 / ISO 4833 : 2003 BAM 8 th Edition, Revision A, Chapter 3	10-10 ⁷ CFU /gm 10-10 ⁷ CFU /gm 10-10 ⁷ CFU /gm
		Yeast & Mould	BP-2013/IP-2010 IS 5403: 1999 BAM 8 th Edition, Revision A, Chapter 18	10-10 ⁷ CFU /gm 10-10 ⁷ CFU /gm 10-10 ⁷ CFU /gm
		<i>Pseudomonas aeruginosa</i>	BP-2013/IP-2010	Presence/ Absence/ 25 gm
3.	Carbonated Beverages Alcoholic & Soft Drink beverages	Standard Plate Count (22°C and 37°C) / Total Plate Count/ Aerobic Microbial Count	APHA 22 nd Edition 9215 B IS 1622 : 1981 IS 5402:2012 / ISO 4833 : 2003	1 -10 ⁷ CFU / ml 1- 10 ⁷ CFU / ml 1- 10 ⁷ CFU / ml
		<i>E. coli</i>	APHA 22 nd Edition, 9221 F IS 1622 : 1981 IS 15185 : 2002 / ISO 9308-1: 2000	MPN < 1.1- >23 / 100ml MPN < 1.8-1600 /100ml MPN < 2 - 1600/100 ml Presence / Absence / 250ml

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	Carbonated Beverages	Coliform Bacteria	APHA 22 nd Edition, 9221 B	MPN < 1.1 ->23 /100 ml MPN < 1.8- >1600/ 100 ml
	Alcoholic & Soft Drink beverages		IS 1622 : 1981 IS 15185 : 2002 / ISO 9308-1: 2000	MPN < 2 - 1600/100 ml Presence/Absence / 250 ml
		Faecal Coliform	APHA 22 nd Edition, 9221 E IS 1622 : 1981	MPN < 1.1 ->23 /100 ml MPN < 1.8 ->1600/ 100 ml MPN < 1 ->161/100 ml MPN < 2 - 1600/100 ml
		Faecal Streptococci	APHA 22 nd Edition 9230 B IS 1622 : 1981 IS 15186 : 2002 / ISO 7899-2 : 2000	MPN < 1.1 ->23 /100 ml MPN < 1.8 ->1600/ 100 ml MPN < 1 ->161/100 ml MPN < 2 - 1600/100 ml Presence/Absence / 250 ml
		<i>Staphylococcus aureus</i>	IS 5887 (Pt 2) : 1976	Presence /Absence / 250 ml
		<i>Pseudomonas aeruginosa</i>	IS 13428 : 2005 Annexure D APHA 22 nd Edition 9213 E	Presence /absence / 250 ml Presence/Absence/ 250 ml

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	Carbonated Beverages	<i>Salmonella</i>	IS 15187 : 2002	Presence/Absence / 250ml
	Alcoholic & Soft Drink beverages		APHA 22 nd Edition 9260 B	Presence/Absence / 250 ml
		Shigella	IS 5887 (Pt 7) : 1999	Presence/Absence / 250 ml
			APHA 22 nd Edition 9260 E	Presence/Absence / 250 ml
		<i>Vibrio cholerae</i>	APHA 22 nd Edition 9260 H	Presence/Absence / 250 ml
		<i>Vibrio cholerae</i> and <i>Vibrio parahaemolyticus</i>	IS 5887 (Pt 5) : 1976	Presence/Absence / 250 ml
		Yeast & Mould	IS 5403: 1999	Presence/Absence / 250 ml
			IS 5403: 1999	1 –10 ⁷ CFU / ml
		Sulphite-Reducing Anaerobes (clostridia)	IS 13428 : 2005 Annexure C	Presence/Absence / 50 ml

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II.	WATER			
	Drinking water,	Standard Plate Count	APHA 22 nd Edition 9215 B	1– 10 ⁷ CFU / ml
	Packaged Drinking Water,	(22°C and 37°C) /	IS 1622 : 1981	1– 10 ⁷ CFU / ml
	Water,	Total Plate Count /	IS 5402 - 2012 /	1– 10 ⁷ CFU / ml
	Packaged Natural Mineral Water,	Aerobic Microbial Count	ISO 4833 - 2003	
	Water for Swimming Pool and Spas,		ISO 6222 – 1999	1– 10 ⁷ CFU / ml
	Water for Construction Purpose,	E. coli	APHA 22 nd Edition 9221 F	MPN < 1.1 - >23/ 100ml
	Outlet Water from Purifiers,		IS 1622 : 1981	MPN < 1.8 - >1600/ 100 ml
	Ground Water/ Surface Water,		IS 15185 : 2002 /	MPN < 2 - 1600/100 ml
	Water for Medicinal Purposes		ISO 9308-1: 2000	Presence/Absence / 250ml
	Distilled /Demineralised Water,	Coliform Bacteria	APHA 22 nd Edition 9221B	MPN < 1.1 - >23/100 ml
	Water for Processed Food Industry,		IS 1622 : 1981	MPN < 1.8 - >1600/ 100 ml
	Water for industrial purpose,		IS 15185 : 2002 /	MPN < 1 - >161/100 ml
			ISO 9308-1: 2000	MPN < 2 - 1600/100 ml
			IS 5401 (Part 1) : 2012	Presence/Absence / 250 ml
				< 1 –10 ⁷ CFU / ml

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		Faecal Coliform	APHA 22 nd Edition 9221 E IS 1622 : 1981	MPN < 1.1->23/100 ml MPN < 1.8 ->1600/ 100 ml MPN < 2 - 1600/100 ml
		Faecal Streptococci	IS 1622 : 1981 IS 15186 : 2002 / ISO 7899-2:2000 APHA 22 nd Edition 9230 B	MPN < 2 - 1600/100 ml Presence/Absence / 250 ml MPN < 1.1->23/100 ml MPN < 1.8 - > 1600/ 100 ml
		<i>Staphylococcus aureus</i>	IS 5887 (Pt 2) :1976	Presence / Absence / 250 ml
		Sulphite Reducing Anaerobes (clostridia)	IS 13428 : 2005 Annexure C	Presence/Absence / 50 ml
		<i>Pseudomonas aeruginosa</i>	IS 13428 : 2005 Annexure D ISO 16266 - 2006 APHA 22 nd Edition 9213 E	Presence /absence / 250 ml Presence /absence / 250 ml Presence/Absence / 50 ml
		Salmonella	IS 15187 : 2002 APHA 22 nd Edition 9260 B	Presence/Absence / 250ml Presence/Absence/ 250 ml

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		Shigella	IS 5887 (Pt 7) : 1999 APHA 22 nd Edition 9260 E	Presence/Absence / 250 ml Presence/Absence/ 250 ml
		<i>Vibrio Cholerae</i>	APHA 22 nd Edition 9260 H	Presence/Absence / 250 ml
		<i>Vibrio cholerae</i> and <i>Vibrio parahaemolyticus</i>	IS 5887 (Pt 5) :1976	Presence/Absence / 250 ml
		Yeast & Mould	IS 5403: 1999 IS 5403: 1999	Presence/Absence / 250 ml < 1 –10 ⁷ CFU / ml
		Proteolytic and Lipolytic organism, Combined count	Appendix A of IS 4251: 1967	< 1– 10 ⁷ CFU / ml
		<i>Clostridium perfringens</i>	98/83/EC Directive	Presence / Absence / 100 ml
III.	DRUGS AND PHARMACEUTICALS			
		Total Aerobic Microbial count		
1.	Natural drugs Ayurvedic drugs Herbal drugs	Total bacterial count	Protocol for testing Ayurvedic, Siddha & Unani Medicine, 1 st Edition, Department of Ayush, 2.4.2 Page No. 87 – 89	1 - 10 ⁷ CFU/ gm 100 – 10 ⁷ CFU / gm (or) ml
		Yeast and mould count	Protocol for testing Ayurvedic, Siddha & Unani Medicine, 1 st Edition, Department of Ayush, 2.4.2 Page No. 87 – 89	1 - 10 ⁷ CFU/ gm 100 – 10 ⁷ CFU / gm (or) ml

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	Natural drugs Ayurvedic drugs Herbal drugs	Salmonella	Protocol for testing Ayurvedic, Siddha & Unani Medicine, 1 st Edition, Department of Ayush 2.4.3 Page No. 89 – 90	Presence/Absence/ gm or ml
		<i>Escherichia coli</i>	Protocol for testing Ayurvedic, Siddha & Unani Medicine, 1 st Edition, Department of Ayush 2.4.3 Page No. 90 – 91	Presence/Absence/ gm or ml
		<i>Pseudomonas aeruginosa</i>	Protocol for testing Ayurvedic, Siddha & Unani Medicine, 1 st Edition, Department of Ayush 2.4.3 Page No. 91	Presence/Absence/ gm or ml
		<i>Staphylococcus aureus</i>	Protocol for testing Ayurvedic, Siddha & Unani Medicine, 1 st Edition, Department of Ayush 2.4.3 Page No. 91 - 92	Presence/Absence/ gm or ml
IV.	GMO TESTING (DETECTION BY DNA)			
1	Soya and Soya Based products	Qualitative PCR test for 35 S promoter and NOS Terminator.	In-house validated method GCLPL/QS/BA/5.4/06 Real Time PCR	Qualitative test LOD:-0.1 %
2	Maize and maize based products	Qualitative PCR test for 35 S promoter and NOS Terminator.	In-house validated method GCLPL/QS/BA/5.4/06 Real Time PCR	Qualitative test LOD:-0.1 %

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3	Cotton (Seed, leaves and fibers) and cotton based products	Qualitative PCR test for 35 S promoter and NOS Terminator.	In-house validated method GCLPL/QS/BA/5.4/06 Real Time PCR	Qualitative test LOD:-0.1 %
4	Rice and Rice based products	Qualitative PCR test for 35 S promoter and NOS Terminator.	In-house validated method GCLPL/QS/BA/5.4/06 Real Time PCR	Qualitative test LOD:-0.1 %
5	Food & Agricultural Products <ul style="list-style-type: none"> • Rape Seed • Sesame seeds • Ground nut • Onion & Garlic • Coffee beans • Tomato • Brinjal • Wheat 	Qualitative PCR test for 35 S promoter and NOS Terminator.	In-house validated method GCLPL/QS/BA/5.4/06 Real Time PCR	Qualitative test LOD:-0.1 %
6	Animal Feed Products	Qualitative detection of plant DNA &/or animal DNA specific for : Equine Bovine Ruminant Porcine Ovine Goat	In-house validated method GCLPL/QS/BA/5.4/09 Real Time PCR	Qualitative test LOD:-0.01 %

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