Laboratory	**Shriram Institute for Industrial Research, 19, University Road, Delhi**		
Accreditation Standard	**ISO/IEC 17025: 2005**		
Discipline	**Biological Testing**	**Issue Date**	**02.11.2014**
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Last Amended on	**09.11.2015**	**Page**	**1 of 21**

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
I.	**WATER**			
1.	**Drinking water**	Total coliform	IS 1622: 1981(RA 2009)	< 2-1600 organisms/ 100ml
			APHA 22nd edition Part 9221 page 9-65	<1.8-1600 organisms/ 100ml
		E. coli	IS 1622: 1981(RA 2009) APHA 22nd edition Part 9221 page 9-65	Qualitative (Present/ Absent) per ml
2.	**Swimming Pool water**	Total coliform	IS 1622: 1981(RA 2009)	<2-1600 organisms/ 100ml
			APHA 22nd edition Part 9221 page 9-65	< 1.8-1600 organisms/ 100ml
		Standard Plate Count	IS 3328-1993- Reaff. 2008 APHA 22nd edition Part 9215 page 9-52	< 1 cfu/ml
3.	**Natural Packaged Mineral Water & Packaged Drinking Water**	Total viable colony count at 37^0C & 22^0C	IS 5402: 2012 At 37^0C	< 1 cfu/ml
		Yeast & Mould count	IS 5403: 1999 (RA 2009)	Qualitative (Present/ Absent) per 250 ml
		Coliform	IS 5401 (Part I) : 2002 (RA 2012)	Qualitative (Present/ Absent) per 250 ml

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	Natural Packaged Mineral Water & Packaged Drinking Water	E. coli	IS 5887 (Part I): 1976 (RA 2005)	Qualitative (Present/ Absent) per 250 ml
		Faecal Streptococci	IS 5887 (Part 2): 1976 (RA 2005)	Qualitative (Present/ Absent) per 250 ml
		Salmonella	IS 5887(Part 3): 1999 (RA 2009) / ISO-6579 – 1993	Qualitative (Present/ Absent) per 250 ml
		Shigella	IS 5887 (Part 7): 1999 (RA 2009)	Qualitative (Present/ Absent) per 250 ml
		Vibrio cholerae &. Vibrio parahaemolyticus	IS 5887 (Part 5): 1976 (RA 2005)	Qualitative (Present/ Absent) per 250 ml
		S. aureus	IS 5887(Part 2): 1976 (RA 2009)	Qualitative (Present/ Absent) per 250 ml
		Sulphite reducing anaerobes	IS 13428: 2005 Annex. C	Qualitative (Present/ Absent) per 50 ml
			Standard method for examination of water and waste water 22nd edition (APHA)	Qualitative (Present/ Absent) per 100 ml
		Pseudomonas aeruginosa	IS 13428-2005 Annex. D	Qualitative (Present/ Absent) per 250 ml

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
4.	**Water from other sources (e.g. Water for Processed food industry)**	MPN coliform	IS 1622: 1981(RA 2009)	< 2 -1600 organisms/ 100ml
			APHA 22nd edition Part 9221 page 9-65	< 1.8-1600 organisms/ 100ml
		Standard plate count	IS 5402-2012/ IS 1622-1981(RA 2009) ;	< 1 cfu/ml
			APHA 22nd edition Part 9215 page 9-52	< 1 cfu/ml
		Proteolytic/ Lipolytic Bacteria count	IS 4251: 1967 (RA 1992)	< 5 organisms/ml
II.	**FOOD AND AGRICULTURAL PRODUCTS**			
1.	**Milk & Milk Products**			
a .	**Raw Milk**	Aerobic plate count	IS 5402: 2012	< 1 cfu/ml
		Coliform count	IS 5401 (Part 1): 2002 (RA 2012)	Qualitative (Present/ ml or Absent / ml)
		S. aureus	IS 5887 (Part 2): 1976 (RA 2009)	Qualitative (Present/ 25 ml or Absent /25 ml)
		Faecal Streptococci	IS 5887 (Part 2): 1976 (RA 2009)	Qualitative (Present/ 25 ml or Absent /25 ml)
b.	**Milk Powders**	Bacterial count	IS 5402: 2012	< 10 cfu/g
		Coliform count	IS 5401(Part 1): 2002/ FDA BAM-8th edition	< 10 cfu/g

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Milk Powders	S. aureus	IS 5887 (Part 2): 1976 (RA 2009)	Qualitative (Present/Absent) per 25gm
		Salmonella	IS 5887 (Part 3): 1999 (RA 2009)	Qualitative (Present/Absent) per 25gm
		Shigella	IS 5887(Part 8): 1999 (RA 2009)	Qualitative (Present/Absent) per 25gm
c.	**Condensed milk**	Bacterial count	IS 5402: 2012 (RA 2007)	< 10 cfu/g
		Coliform count	IS 5401(Part 1): 2002 / (RA 2012)	< 10 cfu/g
		S. aureus	IS 5887(II)1976 (RA 2009)	Qualitative (Present/Absent) per 25gm
		Yeast & Mould count	IS 5403: 1999 (RA 2009)	< 10 cfu/g
d.	**Cheese**	Bacterial count	IS 5402: 2012	< 10 cfu/g
		Coliform count	IS 5401 (Part 1): 2002 (RA 2012)	<10 cfu/g
		S. aureus	IS 5887 (Part 2)1976 (RA 2009)	Qualitative (Present/Absent) per 25gm
		Salmonella	IS 5887(Part 3): 1999 / ISO-6579/1993/	Qualitative (Present/Absent) per 25gm

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Cheese	Shigella	IS 5887 (Part 7): 1999 (RA 2009)	Qualitative (Present/Absent) per 25gm
		E. coli	IS 5887 (Part 1): 1976 (RA 2005)	Qualitative (Present/Absent) per 25gm
		Listeria monocytogenes	IS 14988 (Part 1) : 2001	Qualitative (Present/Absent) per 25gm
		Yeast & Mould count	IS 5403: 1999 (RA 2009)	< 10 cfu/g
e.	**Butter**	Coliform count	IS 5401(Part 1): 2002 (RA 2012)	Qualitative (Present/Absent) per g
		Yeast & Mould count	IS 5403: 1999 (RA 2009)	< 10 cfu/g
f.	**Ice creams**	Total Plate Count	IS 5402: 2012	< 10 cfu/g
g.	**Edible casein**	Bacterial count	IS 5402: 2012	< 10 cfu/g
		Coliform count	IS 5401(Part 1): 2002 (RA 2012)	< 10 cfu/g
		Yeast & Mould count	IS 5403: 1999 (RA 2009)	< 10 cfu/g
h.	**Packaged Pasteurized Milk**	Total plate count	IS 5402: 2012	< 1cfu/ml
		Coliform	IS 5401(Part 1): 2002 (RA 2012)	Qualitative (Present/Absent) per ml
i.	**Infant milk substitute**	Total bacterial count	IS 5402: 2012	< 10 cfu/g

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Infant milk substitute	Coliform	IS 5401 (Part 1): 2002 (RA 2012)	Qualitative (Present/Absent) per g
		Staphylococcus aureus	IS 5887(Part 2): 1976 (RA 2009)	Qualitative (Present/ Absent) per 25 g
		Escherichia coli	IS 5887(Part 1): 1976 (RA 2005)	Qualitative (Present/ Absent) per 25 g
j.	**Malted milk foods**	Total bacterial count	IS 5402: 2012	< 10 cfu/g
		Coliform count	IS 5401(Part 1): 2002 (RA 2012)	< 10 cfu/g
2.	**Beverages**			
a.	**Alcoholic Drinks**	Coliform count	IS 5401(Part 1): 2002 (RA 2012)	< 1 cfu/ml
	Beer	Coliform count	IS 5401(Part 1): 2002 (RA 2012)	Qualitative (Present/Absent) per ml
b.	**Non alcoholic drinks**	Coliform count	IS 5401(Part 1): 2002 (RA 2012)	Qualitative (Present/Absent) per ml
		Yeast & Mould count	IS 5403: 1999 (RA 2009) (RA 2009)	< 1 cfu/ml
3.	**Cooked Food Products**	Total Bacterial Count	IS 5402: 2 012	< 10 cfu/g
		Coliform count	IS 5401 (Part 1): 2002 (RA 2012)	< 10 cfu/g

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Cooked Food Products	E. coli	IS 5887(Part 1): 1976 (RA 2005)	Qualitative (Present/Absent) per 25 g
		Salmonella	IS 5887(Part 3): 1999 (RA 2009)	Qualitative (Present/Absent) per 25 g
		S. aureus	IS 5887(Part 2): 1976 (RA 2009)	Qualitative (Present/Absent) per 25 g
4.	**Fish & Fishery Products**	Aerobic plate count	IS 5402: 2012	< 10 cfu/g
		E. coli	IS 5887(Part 1): 1976 Reaff-2005/	Qualitative (Present/Absent) per 25 g
		Coliform Count	IS 5401 (Part 1): 2002 (RA 2012)	< 10 cfu/g
		Salmonella	IS 5887 (Part 3): 1999	Qualitative (Present/Absent) per 25 g
		S. aureus	IS 5887(Part 2): 1976 (RA 2009)	Qualitative (Present/Absent) per 25 g
		Vibrio cholerae & V. parahaemolyticus	IS 5887(Part 5): 1976 (RA 2005)	Qualitative (Present/Absent) per 25 g
		Shigella	IS 5887(Part 7): 1999 (RA 2009)	Qualitative (Present/Absent) per 25 g

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
5.	**Meat & Meat Products**	Aerobic plate count	IS 5402: 2012	< 10 cfu/g
		Coliform count	IS 5401(Part 1): 2002 (RA 2012)	< 10 cfu/g
		E. coli	IS 5887(Part 1): 1976 (RA 2005)	Qualitative (Present/Absent) per 25 g
		Salmonella	IS 5887(Part 3): 1999 (RA 2009)	Qualitative (Present/Absent) per 25 g
		S.aureus	IS 5887(Part 2): 1976 (RA 2009)	Qualitative (Present/Absent) per 25 g
		Faecal Streptococci	IS 5887(Part 2): 1976 (RA 2009)	Qualitative (Present/Absent) per 25 g
		Shigella	IS 5887(Part 7): 1999 (RA 2009)	Qualitative (Present/Absent) per 25 g
		Vibrio cholera & V. parahaemolyticus	IS 5887(Part 5): 1976 (RA 2005)	Qualitative (Present/Absent) per 25 g
		Clostridium perfringens	IS 5887(Part 4): 1999 (RA 2005)	Qualitative (Present/Absent) per 25 g
		Bacillus cereus	IS 5887(Part 6): 1999 (RA 2005)	Qualitative (Present/Absent) per 25 g

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
6.	**Mutton/Goat Meat Fresh/Fresh-Frozen/Fresh-Chilled**	Aerobic plate count	IS 5402: 2012	< 10 cfu/g
		E.coli	IS 5887(Part 1): 1976 Reaff-2005	< 10 cfu/g
		Salmonella	IS 5887(Part 3): 1999 (RA 2009)	Qualitative (Present/Absent) per 50 g
		Staphylococcus aureus	IS 5887(Part 2): 1976 (RA 2005)	< 10 cfu/g
		Yeast and mould	IS 5403: 1999 (RA 2009)	< 10 cfu/g
7.	**Fruits & Vegetable Products (Fresh, Processed and Canned)**	Aerobic plate count	IS 5402: 2012	< 10 cfu/g
		Coliform count	IS 5401(Part 1): 2002/ (RA 2012)	< 10 cfu/g
		Yeast & Mould count	IS 5403: 1999 (RA 2009)	< 10 cfu/g
		E. coli	IS 5887(Part 1): 1976 (RA 2005)	Qualitative (Present/Absent) per 25 g
		Salmonella	IS 5887(Part 3): 1999 (RA 2005)	Qualitative (Present/Absent) per 25 g
		Faecal Streptococci	IS 5887(Part 2)-1976 (RA 2009)	Qualitative (Present/Absent) per 25 g

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Fruits & Vegetable Products (Fresh, Processed and Canned)	Shigella	IS 5887(Part 7): 1999 (RA 2009)	Qualitative (Present/Absent) per 25 g
		Clostridium perfringens	IS 5887(Part 4): 1999 (RA 2009)	Qualitative (Present/Absent) per 25 g
		Bacillus cereus	IS 5887(Part 6): 1999 (RA 2009)	Qualitative (Present/Absent) per 25 g
8.	**Spices (whole and Ground)**	Aerobic plate count	IS 5402: 2012	< 10 cfu/g
		Coliform count	IS 5401(Part 1): 2002 (RA 2012)	< 10 cfu/g
		Yeast & Mould count	IS 5403: 1999 (RA 2009)	< 10 cfu/g
9.	**Cereals & Grains**	Aerobic plate count	IS 5402: 2012	< 10 cfu/g
		Coliform count	IS 5401(Part 1): 2002 (RA 2012)	< 10 cfu/g
		Yeast & Mould count	IS 5403: 1999 (RA 2009)	< 10 cfu/g
		E. coli	IS 5887(Part 1): 1976 (RA 2005)	Qualitative (Present/Absent) per 25 g
		Salmonella	IS 5887(Part 3): 1999 (RA 2009)	Qualitative (Present/Absent) per 25 g
		S. aureus	IS 5887(Part 2): 1976 (RA 2009)	Qualitative (Present/Absent) per 25 g

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Cereals & Grains	Total Aflatoxin	SOP- SRI/MICRO/023 (Date Of Issue-12.08.2013 Issue No.-001)	1.7 µg/kg – 45 µg/kg
10.	**Gelatin**	Aerobic plate count	IS 5402: 2012	< 10 cfu/g
		E. coli	IS 5887 (Part 1): 1976 (RA 2005)	< 10 cfu/g
11.	**Honey**	Total count of Pollen & plant element	IS 4941-1994	< 25 to 60000 count/g
12.	**Egg Powder**	Aerobic plate count	IS 5402: 2012	< 10 cfu/g
		Coliform count	IS 5401(Part 1): 2002 (RA 2012)	< 10 cfu/g
		Yeast & Mould count	IS 5403:1999 (RA 2009)	< 10 cfu/g
		Salmonella	IS 5887(Part 3): 1999 (RA 2009)	Qualitative (Present/Absent) per 25 g
13.	**Wheat Flour**	Aerobic plate count	IS 5402: 2012	< 10 cfu/g
		Coliform count	IS 5401(Part 1): 2002 (RA 2012)	< 10 cfu/g
		Yeast & Mould count	IS 5403-1999 (RA 2009)/	< 10 cfu/g
		E. coli	IS 5887(Part 1): 1976 (RA 2005)	Qualitative (Present/Absent) per 25 g

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
14.	**Nut and Nut Products**	Aerobic plate count	IS 5402: 2012	< 10 cfu/g
		Coliform count	IS 5401(Part 1): 2002 (RA 2012)	< 10 cfu/g
		Yeast & Mould count	IS 5403: 1999 (RA 2009)	< 10 cfu/g
		E. coli	IS 5887(Part 2): 1976 (RA 2005)	Qualitative (Present/Absent) per 25 g
		Salmonella	IS 5887(Part 3): 1999 (RA 2009)	Qualitative (Present/Absent) per 25 g
		Shigella	IS 5887(Part 7): 1999 (RA 2009)	Qualitative (Present/Absent) per 25 g
		Total Aflatoxin	SOP- SRI/MICRO/023 (Date Of Issue-12.08.2013 Issue No.-001)	1.7 µg/kg to 45 µg/kg
15.	**Cereal Based Complementary Foods**	Aerobic plate count	IS 5402: 2012	< 10 cfu/g
		Coliform count	IS 5401(Part 1): 2002 (RA 2012)	< 10 cfu/g
		Yeast & Mould count	IS 5403: 1999 (RA 2005)	< 10 cfu/g
		E. coli	IS 5887(Part 1): 1976 (RA 2005)	Qualitative (Present/Absent) per 25 g

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Cereal Based Complementary Foods	Salmonella	IS 5887(Part 3): 1999 (RA 2009)	Qualitative (Present/Absent) per 25 g
		S. aureus	IS 5887(Part 2): 1976 (RA 2009)	Qualitative (Present/Absent) per 25 g
16.	**Juices**	Aerobic plate count	IS 5402: 2012	< 10 cfu/ml
		Shigella	IS 5887 (Part 7): 1999 (RA 2009)	Qualitative (Present/Absent) per 25 ml
		S. aureus	IS 5887(Part 2): 1976 (RA 2009)	Qualitative (Present/Absent) per 25 ml
		Coliform count	IS 5401 (Part 1): 2002 (RA 2012)	Qualitative (Present/Absent) per 25 ml
		E.coli	IS 5887(Part 1): 1976 (RA 2005)	Qualitative (Present/Absent) per 25 ml
		Salmonella	IS 5887(Part 3): 1999 (RA 2009) ISO-6579 - 1993	Qualitative (Present/Absent) per 25 ml

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III.	**BIOCIDES**			
1.	**Disinfectant Phenyl & De-odorizing cum disinfectant fluid**	Rideal Walker Coefficient	IS 1061: 1997 (RA 2005)	3.0 to 20 RWC
		Staphylococcal Coefficient	IS 1061: 1997 (RA 2005)	1 to 10 SAC
IV.	**COSMETICS AND ESSENTIAL OIL**			
1.	**Skin creams & lotions**	Total microbial count	IS 14648: 2011	≥ 1 cfu in liquids and ≥ 10 cfu in solids
		Yeast & mould count	IS 14648: 2011	≥ 1 cfu in liquids and ≥ 10 cfu in solids
		E. coli	IS 14648: 2011	Qualitative (Present/Absent) per g
		Salmonella	IS 14648: 2011	Qualitative (Present/Absent) per g
		S. aureus	IS 14648: 2011	Qualitative (Present/Absent) per g
		Pseudomonas aeruginosa	IS 14648: 2011	Qualitative (Present/Absent) per g
		Candida albicans	IS 14648: 2011	Qualitative (Present/Absent) per g
2.	**Hair oil**	Total aerobic microbial count	IS 7123:1993 (Reaffirmed 2003, edition 3.5)	≥ 1 cfu /g

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
V.	**DRUGS AND PHARMACEUTICALS**			
1.	**Herbal Products**			
a.	**Powder**	Aerobic plate count	As per AP Pt-II, Vol-III, 1st edition-2010	≥10 cfu/g/ml
		Yeast and Mould count	As per AP Pt-II, Vol-III, 1st edition-2010	≥10 cfu/g/ml
		E. coli	As per AP Pt-II, Vol-III, 1st edition-2010	Qualitative (Present/Absent) per g
		Salmonella	As per AP Pt-II, Vol-III, 1st edition-2010	Qualitative (Present/Absent) per g
		S. aureus	As per AP Pt-II, Vol-III, 1st edition-2010	Qualitative (Present/Absent) per g
		Pseudomonas aeruginosa	As per AP Pt-II, Vol-III,.1st edition-2010	Qualitative (Present/Absent) per g
2.	**Pharmaceutical**			
a.	**Raw Material Paclitaxel**	Total Microbial count	IP 2014 ,BP 2014 and USP 37-2014	≥10 cfu/g/ml
		Yeast and Mould count	IP 2014 ,BP 2014 and USP 37-2014	≥10 cfu/g/ml
		E. coli	IP 2014 ,BP 2014 and USP 37-2014	Qualitative (Present/Absent) per g
		Salmonella	IP 2014 ,BP 2014 and USP 37-2014	Qualitative (Present/Absent) per g

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Raw Material Paclitaxel	S. aureus	IP 2014 ,BP 2014 and USP 37-2014	Qualitative (Present/Absent) per g
		Pseudomonas aeruginosa	IP 2014 ,BP 2014 and USP 37-2014	Qualitative (Present/Absent) per g
b.	**Tetracycline HCl**	Total Microbial count	IP 2014 ,BP 2014 and USP 37-2014	≥10 cfu/g/ml
		Yeast and Mould count	IP 2014 ,BP 2014 and USP 37-2014	≥10 cfu/g/ml
		E. coli	IP 2014 ,BP 2014 and USP 37-2014	Qualitative (Present/Absent) per g
		Salmonella	IP 2014 ,BP 2014 and USP 37-2014	Qualitative (Present/Absent) per g
		S. aureus	IP 2014 ,BP 2014 and USP 37-2014	Qualitative (Present/Absent) per g
		Pseudomonas aeruginosa	IP 2014 ,BP 2014 and USP 37-2014	Qualitative (Present/Absent) per g
3.	**Finished products**			
a.	**Solid Oral Dosages (Tablet and Capsules)**	Total Microbial count	IP 2014 ,BP 2014 and USP 37-2014	≥10 cfu/g/ml
		Yeast and Mould count	IP 2014 ,BP 2014 and USP 37-2014	≥10 cfu/g/ml
		E .coli	IP 2014 ,BP 2014 and USP 37-2014	Qualitative (Present/Absent) per g

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Solid Oral Dosages (Tablet and Capsules)	Salmonella	IP 2014 ,BP 2014 and USP 37-2014	Qualitative (Present/Absent) per g
		S. aureus	IP 2014 ,BP 2014 and USP 37-2014	Qualitative (Present/Absent) per g
		Pseudomonas aeruginosa	IP 2014 ,BP 2014 and USP 37-2014	Qualitative (Present/Absent) per g
b.	**Liquid Oral Dosages (Syrup)**	Total Microbial count	IP 2014 ,BP 2014 and USP 37-2014	≥10 cfu/g/ml
		Yeast and Mould count	IP 2014 ,BP 2014 and USP 37-2014	≥10 cfu/g/ml
		E. coli	IP 2014 ,BP 2014 and USP 37-2014	Qualitative (Present/Absent) per g
		Salmonella	IP 2014 ,BP 2014 and USP 37-2014	Qualitative (Present/Absent) per g
		S. aureus	IP 2014 ,BP 2014 and USP 37-2014	Qualitative (Present/Absent) per g
		Pseudomonas aeruginosa	IP 2014 ,BP 2014 and USP 37-2014	Qualitative (Present/Absent) per g
4.	**Antibiotics**			
	Finished products			
a.	**Tablet**	Erythromycin estolate	IP 2014 (Cup Plate Method)	60 % to 150 %
		Erythromycin stearate	IP 2014 (Cup Plate Method)	60 % to 150 %

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
b.	**Injection**	Amikacin sulphate	IP 2014 (Cup Plate Method)	60 % to 150 %
		Polymyxin B sulphate	USP 37-2014 (Cup Plate Method)	60 % to 150 %
		Streptomycin sulphate	IP 2014 (Cup Plate Method)	60 % to 150 %
		Gentamycin sulphate	IP 2014 (Cup Plate Method)	60 % to 150 %
c.	**Cream**	Neomycin sulphate	IP 2014 (Cup Plate Method)	60 % to 150 %
5.	**Parenteral preparations**			
a.	**WFI**	Sterility test	IP 2014 ,BP 2014 and USP 37-2014 Membrane filtration Direct inoculation	Complies/not comply
b.	**Antibiotic liquids / Antibiotic solids**	Sterility test	IP 2014 ,BP 2014 and USP 37-2014 Membrane filtration Direct inoculation	Complies/not comply
6.	**Ophthalamic preparations**	Sterility test	IP 2014 ,BP 2014 and USP 37-2014 Membrane filtration Direct inoculation	Complies/not comply
7.	**Surgical items- Surgical dressings/ surgical devices/ surgical gloves/ Surgical Blades**	Sterility test	IP 2014, IS 10150:1981 Clause 5.0 page 12	Complies/not comply

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
8.	**Parenteral preparations**	Bacterial Endotoxin Test (Gel Clot Method)	IP 2014 and USP 37-2014	Pass / Does not Pass
9.	**Finished products**	Lactic acid bacillus assay	SOP- SRI/MICRO/024 (Date Of Issue-12.08.2013 Issue No.-001)	≥ 10 cfu/g
10.	**Vitamins (Finished products)**	B_{12} Assay	SOP- SRI/MICRO/025 (Date Of Issue-12.08.2013 Issue No.-001) , VT-1A	0.025-.1 mcg/ml
		Biotin Assay	As per USP 36-2013	30 to 600 mcg/ml
		Calcium Pantothenate	As per USP 37-2014	10 to 40 ng/ml
VI.	**BIOLOGICAL TESTS ON OTHER MISCELLANEOUS TEST ITEMS**			
1.	**Wood Testing**			
a.	**Block Board**	Mycological test	IS 1659: 2004 Ann. H	Qualitative (Growth / No Growth)
b.	**Plywood**	Mycological test	IS 1734: 1983 (Part 7) (RA 2003)	Qualitative (Growth / No Growth)
c.	**Adhesives**			
		Test for stability (Fungal resistance test)	IS 2257: 1989	Qualitative (Growth / No Growth)
VII.	**TOXICOLOGY**			
1.	**Medical devices**	Biological Reactivity test (in vivo) Tissue implantation test on rats /rabbits	IS 12572 (Part 3): 1988 (RA 2010) IS 12418 (Part 4): 2000 (RA 2010) IS 13009: 2000 (RA 2010) ISO 10993-6 USP 36: 2013	NA

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Medical devices	Biological Reactivity test (in vivo) Acute, systemic toxicity in mice	IS 12572 (Part 6): 1988 (RA 2010) ASTM F-750: 1987 (RA 2012) IS 12418 (Part 4): 2000 (RA 2012) IS 13009: 2000 (RA 2010) ISO 10993-11 & 12 USP 36: 2013, IP 2014	50 ml/kg B.wt
		Biological Reactivity test (in vivo) Intracutaneous reactivity on Rabbits	IS 12572 (Part 6):1988 (RA 2010) ASTM F-749: 1987 (RA 2012) ASTM F-750: 1987 (RA 2012) IS 12418 (Part 4): 2000 (RA 2012) IS 13009: 2000 (RA 2010) ISO 10993-10 & 12 USP 36: 2013, IP 2014	0.2 ml /site at 5 sites .
		Biological Reactivity test (in Vitro) Cytotoxicity	ISO 10993-5 USP 36: 2013	NA
		Undue toxicity/Abnormal toxicity in mice	IP 2014, BP 2014, USP 36: 2013 Eur. Pharm.	1.0 ml of extract of test item per animal
		Mucous membrane irritancy test in rabbits	ISO 10993-10 OECD No. 405 IS 12572 (Part 10): 1988(RA 2010)	0.1 g/0.1 ml per animal
		Skin Sensitization Test in guinea pigs Skin irritation test in rabbits	ISO 10993- 10 IS 12572 (Part 8): 1988 (RA 2010) IS 12572 (Part 9): 1988 (RA 2010) BS 5736-7: 1983	0.5 ml per animal

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Medical devices	Haemolytic properties of material Haemocompatibility test	ASTM F-756: 2008 ISO 3826 (Part 1): 2013 ISO 3826 (Part 2): 2008 ISO 3826 (Part 3): 2006 ISO 10993-4 IS 12572 (Part 14): 1994	1 mg/ml
		Pyrogen test in rabbits	IP 2014 BP 2014 IS 10258: 2002 (RA 2012) USP 36: 2013 JP XV European Pharmacopoeia 5.0	10 ml/kg B.wt. per animal
2.	**Surgical items** **Rubber tubing**	Rubber Tubing Toxicity/ Abnormal toxicity in mice	IS 5680: 1969 (RA 2008) IP 2014, BP 2014, USP 36: 2013,	1.0 ml of extract of test item per animal
	Gloves **Surgical Examination**	Dermal Irritation in rabbits Skin Sensitization (Buehler's method) in guinea pigs	US FDA ISO10993-10	1"x1" patch (for gloves)

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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.**