

Laboratory I.S.F Analytical Laboratory, A Unit of I.S.F College of Pharmacy,
Ferozpur G.T Road, N.H. 95, Moga, Punjab

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6445

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

I.	DURGS AND PHARMACETICALS			
1.	Raw Material for Pharmaceutical Preparation			
a.	Active Pharmaceuticals Ingredients	Total Viable Aerobic count	IP 2014 (Vol. I), 2.2.9, USP 39 <61>, <62>, BP 2017, Appendix XVIB	1 cfu per g or mL to 10 ⁵ cfu per g or mL
		Total Yeast and Mold count	IP 2014 (Vol. I), 2.2.9, USP 39 <61>, <62>, BP 2017, Appendix XVIB	1 cfu per g or mL to 10 ⁵ cfu per g or mL
		Staphylococcus aureus	IP 2014 (Vol. I), 2.2.9, USP 39 <61>, <62>, BP 2017, Appendix XVIB	Present or Absent per mL or g
		E coli	IP 2014 (Vol. I), 2.2.9, USP 39 <61>, <62>, BP 2017, Appendix XVIB	Present or Absent per mL or g
		Pseudomonas aeruginosas	IP 2014 (Vol. I), 2.2.9, USP 39 <61>, <62>, BP 2017, Appendix XVIB	Present or Absent per mL or g
		Salmonella	IP 2014 (Vol. I), 2.2.9, USP 39 <61>, <62>, BP 2017, Appendix XVIB	Present or Absent per 10 mL or g
2.	Finished Pharmaceutical Preparation			
a.	Tablet, Capsule, Syrup	Total Viable Aerobic count	IP 2014 (Vol. I), 2.2.9, USP 39 <61>, <62>, BP 2017, Appendix XVIB	1 cfu per g or mL to 10 ⁵ cfu per g or mL
		Total Yeast and Mold count	IP 2014 (Vol. I), 2.2.9, USP 39 <61>, <62>, BP 2017, Appendix XVIB	1 cfu per g or mL to 10 ⁵ cfu per g or mL

Sandeep Singh Tomar
Convenor

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		Staphylococcus aureus	IP 2014 (Vol. I), 2.2.9, USP 39 <61>, <62>, BP 2017, Appendix XVIB	Present or Absent per mL or g
		E coli	IP 2014 (Vol. I), 2.2.9, USP 39 <61>, <62>, BP 2017, Appendix XVIB	Present or Absent per mL or g
		Pseudomonas aeruginosas	IP 2014 (Vol. I), 2.2.9, USP 39 <61>, <62>, BP 2017, Appendix XVIB	Present or Absent per mL or g
		Salmonella	IP 2014 (Vol. I), 2.2.9, USP 39 <61>, <62>, BP 2017, Appendix XVIB	Present or Absent per mL or g
3.	Antibiotics (Finished Product)			
a.	Amikacin Sulphate Injection IP	Assay (Cup Plate Method)	IP 2014, (Vol. II) Page No.1028	10 mg/mL to 550 mg/mL
b.	Erythromycin Stearate tablet IP	Assay (Cup Plate Method)	IP 2014, (Vol. II) Page No.1684	10 mg/ to 550 mg/Tablet
c.	Gentamycin Sulphate Injection IP	Assay (Cup Plate Method)	IP 2014, (Vol. II) Page No.1859	10 mg/mL to 40 mg/mL
4.	Sterility Tests			
a.	Injection, Ophthalmic Preparations, Water for Injection, Disposable Syringe	Sterility Test	IP 2014, 2.2.11, USP 39, <71>, BP 2017, Appendix XVI A	Qualitative (Complies/ Does not comply)
5.	Bacterial Endotoxins Test			
a.	Injection, Water for Injection	Bacterial endotoxin (By Gel clot method)	IP 2014, 2.2.3, BP 2017, Appendix XIVC, USP 39, <85>	Qualitative (Complies/ Does not comply)

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CHEMICAL TESTING

I.	DRUGS AND PHARMACEUTICAL PRODUCTS			
1.	Raw Material (General Test)	Description	IP 2014 BP 2017 USP 39	Qualitative
		Solubility	IP 2014, Page No. 174 BP 2017, Page No. V-11 USP 39, Page No. 1536	Qualitative
		Identification by IR	IP 2014, Page No. 337 BP 2017, Page No. V-A 159, USP 39, Page No. 144	Qualitative
		Identification by UV	IP 2014, Page No. 139 BP 2017, Page No. V-A 165, USP 39, Page No. 144	Qualitative
		Identification by Chemical	IP 2014 Page No. 87 BP 2017 Page No. V-A 225 USP 39 Page No. 140	Qualitative
		Loss on Drying	IP 2014 Page No. 162 BP 2017 Page No. V-A 296 USP 39 Page No. 369	1 % to 40 %
		Viscosity (HPMC)	IP 2014 Page No. 203 BP 2017 Page No. V-A 243 USP 39 Page No. 494	0.5 CPS to 200000 CPS
		Arsenic	IP 2014, Page No. 95 BP 2017, Page No. V-A 259, USP 39, Page No. 155	Qualitative
		Sulphate	IP 2014, Page No. 98 BP 2017, Page No. V-A 258 USP 39, Page No. 157	Qualitative

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		Sulphated Ash (Lactose)	IP 2014, Page No. 98 BP 2017, Page No. V-A 293 USP 39, Page No. 176	0.01 % to 50 %
		Melting Range/Point (Urea)	IP 2014, Page No. 164-166 BP 2017, Page No. V-A 235 USP 39, Page No. 378	40 °C to 300 °C
		pH (Amoxicillin Trihydrate)	IP 2014, Page No. 169 – 170 BP 2017, Page No. V-A 248 USP 39, Page No. 402	0 to 14
		Refractive Index (Dicloro Methane)	IP 2014, Page No. 203 BP 2017, Page No. V-A 237 USP 39, Page No. 475	1.30 to 1.70
		Specific Optical Rotation (Amoxicillin Trihydrate)	IP 2014, Page No. 167-168 BP 2017, Page No. V-A 241 USP 39, Page No. 391	(-) 360° to (+) 360°
		Chloride	IP 2014, Page No. 96 BP 2017, Page No. V-A 256 USP 39, Page No. 157	Qualitative
2.	Drug Substance (API)			
a.	Paracetamol	Assay Dissolution	IP 2014, Page No. 2430 BP 2017, Page No. II-499 USP 39, Page No. 1564	50 % to 120 %
b.	Caffeine	Assay	IP 2014, Page No. 2058 BP 2017, Page No. I-344 USP 39, Page No. 3820	50 % to 120 %

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c.	Amoxicillin Trihydrate	Water	IP 2014, Page No. 1292 BP 2017, Page No. I-427 USP 39, Page No. 2181	0.1 % to 40 %
d.	Chloramphenicol	Assay	IP 2014, Page No. 1349 BP 2017, Page No. I-496 USP 39, Page No. 2277	50 % to 120 %
e.	Nicotinamide	Assay	IP 2014, Page No. 2332 BP 2017, Page No. II-366	Quantitative
f.	Alprazolam	Related Substance	IP 2014, Page No. 1016 BP 2017, Page No. I-104 USP 39, Page No. 1654	Qualitative
g.	Diclofenac Sodium	Assay	IP 2014, Page No. 1551	50 % to 120 %
		Related Substance	IP 2014, Page No. 1551	0 to 2.0 %
h.	Ibuprofen	Assay	IP 2014, Page No. 1943 BP 2017, Page No. I-1165	50 % to 120 %
		Assay	IP 2014, Page No. 2849	50 % to 120 %
i.	Tetracycline HCL	Assay	IP 2014, Page No. 2849	50 % to 120 %
		Related Substance	IP 2014, Page No. 2848-2849	Qualitative
j.	Glycerin	Ethylene Glycol, Diethylene Glycol & Related Substance	IP 2014, Page No. 1870 BP 2017, Page No. I-1063 USP 39, Page No. 3167	Qualitative
		Water	IP 2014, Page No. 1870 BP 2017, Page No. I-1063 USP 39, Page No. 3167	0.1 % to 40 %
k.	Sodium Carboxy Methyl Cellulose	Assay	IP 2014, Page No. 1281	2.0 % to 15.0 %
3.	Pharmaceutical Dosage Forms/ Preparations (General Test)	Identification by IR	IP 2014, Page No. 134 – 139 BP 2017, Page No. V-A 159 USP 39, Page No. 144	Qualitative
		pH	IP 2014, Page No. 169 BP 2017, Page No. V-A 248 USP 39, Page No. 343	2 to 12

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		Disintegration Time	IP 2014, Page No. 251 -253 BP 2017, Page No. V-A 333 USP 39, Page No. 342	0 to 180 min
		Uniformity of Weight	IP 2014, Page No. 256 BP 2017, Page No. V-A 357 USP 39, Page No. 491	As per specification
		Dissolution	IP 2014, Page No. 253-256 BP 2017, Page No. V-A 344, USP 39, Page No. 344	70 % to 110 %
4.	Pharmaceutical Dosage Forms			
1.	Chloroamphenicol Capsules	Assay	IP 2014, Page No. 1349 USP 39, Page No. 2327	50 % to 120 %
2.	Paracetamol Tablet	Assay	IP 2014, Page No. 2434 BP 2017, Page No. III-191- 920 USP 39, Page No. 1568	50 % to 120 %
3.	Ciprofloxacin HCL Tablets	Assay	IP 2014, Page No. 1404 BP 2017, Page No. III-310 USP 39, Page No. 2355	50 % to 120 %
4.	Alprazolam Tablets	Uniformity of Content	IP 2014, Page No. 1017 USP 39, Page No. 1656	50 % to 120 %
		Assay	IP 2014, Page No. 1018 USP 39, Page No. 1656	50 % to 120 %
II.	FOOD AND AGRICULTURAL PRODUCTS			
1.	Milk & Milk Products	Test for Adulterants & Preservatives	FSSAI Lab Manual 1	
		Cane Sugar	FSSAI Lab Manual 1 :2016 Method 1.2.1	Present/Absent

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		Starch	FSSAI Lab Manual 1 :2016 Method 1.2.2	Present/Absent
		Cellulose	FSSAI Lab Manual 1 :2016 Method 1.2.3	Present/Absent
		Added Urea	FSSAI Lab Manual 1 :2016 Method 1.2.4	Present
		Ammonium Sulphate	FSSAI Lab Manual 1 :2016 Method 1.2.5	Present/Absent
		Glucose	FSSAI Lab Manual 1 :2016 Method 1.2.7	Present/Absent
		Sodium Chloride	FSSAI Lab Manual 1 :2016 Method 1.2.8	Present/Absent
		Saccharin	FSSAI Lab Manual 1 :2012 Method 1.2.9	Present/Absent
		Salicylic Acid	FSSAI Lab Manual 1 :2016 Method 1.2.20	Present/Absent
		Dulcin	FSSAI Lab Manual 1 :2012 Method 1.2.10	Present/Absent
		Neutralizers	FSSAI Lab Manual 1 :2016 Method 1.2.11	Present/Absent
		Formalin	FSSAI Lab Manual 1 :2016 Method 1.2.17	Present/Absent
		Hydrogen Peroxide	FSSAI Lab Manual 1 :2016 Method 1.2.18	Present/Absent
		Boric Acid & Borates	FSSAI Lab Manual 1 :2016 Method 1.2.19	Present/Absent
2.	Food Grains, Pulses and Their By Products	Foreign matter	Clause 6.2 of IS 4333 (Part 1): 2002 (RA 2012)	0 to 25 g/100g
		Weeviled grains	Clause 6.3 of IS 4333 (Part 1): 2002(RA 2012)	0 to 25 g/100g
		Damaged grains	Clause 6.3 of IS 4333 (Part 1): 2002 (RA 2012)	0 to 25 g/100g

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		Insect damaged grains	Clause 6.3 of IS 4333 (Part 1): 2002 (RA 2012)	0 to 25 g/100g
		Broken Matter	Clause 6.3 of IS 4333 (Part 1): 2002 (RA 2012)	0 to 25 g/100g
		Other edible grains	Clause 6.3 of IS 4333 (Part 1): 1996 (RA 2012)	0 to 25 g/100g
		Moisture	Appendix A of IS 1155:1968 (RA 2010)	1 g/100g to 30 g/100g
		Total ash	Appendix B of IS 1155:1968 (RA 2010)	0.05 g/100g to 10 g/100g
		Gluten	Appendix D of IS 1155:1968 (RA 2010)	2 g/100g to 20 g/100g
		Protein	IS 7219:1973 (RA 2009)	0.5 g/100g to 40 g/100g
		Fat	Appendix F of IS 4684:1975 (RA 2009)	0.5 g/100g to 10 g/100g
		Carbohydrates	AOAC (18 th Ed) Official Method 986.25 (By Computation)	50 g/100g to 80 g/100g
		Energy (Calorific value)	IS 14433 (Part 1): 2000 (RA 2005) (By Computation)	325 Kcal/100g to 450 Kcal/100g
3.	Animal Feed & Pet Food	Moisture	Clause 4 of IS 7874 (Part I): 1975 (RA 2009)	0.5 g/100g to 25 g/100g
		Ash	Clause 9 of IS 7874 (Part I): 1975 (RA 2009)	0.5 g/100g to 10 g/100g
		Crude Fat	Clause 7 of IS 7874 (Part I): 1975 (RA 2009)	0.5 g/100g to 25 g/100g
		Crude Fibre	Clause 8 of IS 7874 (Part I): 1975 (RA 2009)	0.5 g/100g to 5 g/100g
		Protein	IS 7219:1973 (RA 2009)	0.5 g/100g to 60 g/100g
		Carbohydrate	AOAC (18 th Ed) Official Method 986.25 (By Computation)	30 g/100g to 70 g/100g

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4.	Bakery Products	Moisture	Annexure B of IS 1011:2002 (RA 2009)	0.5 % to 50 %
		Total Ash	Annexure C of IS 1011:2002 (RA 2009)	0.5 % to 10 %
		Acid Insoluble ash	Annexure C of IS 1011:2002 (RA 2009)	0.05 % to 2.0 %
		Fat	Clause 10 of IS 12711: 1989 (RA 2009)	0.5 % to 20 %
		Protein	IS 7219: 1973 (RA 2009)	1 % to 40 %
		Sugar	Appendix E of IS 2650:1975 (RA 2005)	1 % to 50 %
		Acidity of extracted fat	Annexure D of IS 1011:2002 (RA 2009)	0.1 % to 0.5 %
		Carbohydrate	AOAC (18 th Ed) Official Method 986.25 (By Computation)	50 g/100g to 80 g/100g
		Energy (Calorific value)	IS 14433 (Part 1): 1997 (RA 2005) (By Computation)	400 Kcal/100g to 500 Kcal/100g
5.	Snacks & Extruded Snacks (Namkeens)	Moisture	Annexure B of IS 15271:2003 (RA 2009)	0.5 % to 10 %
		Fat	Annexure D of IS 15271:2003 (RA 2009)	0.5 % to 60 %
		Ash	Annexure C of IS 15271:2003 (RA 2009)	0.5 % to 10 %
		Acid Insoluble Ash	Annex C of IS 15271:2003 (RA 2009)	0.05 % to 2.0 %
		Protein	IS 7219: 1973 (RA 2009)	1 % to 20 %
		Acid value of extracted fat	Annex E of IS 15271:2003 (RA 2009)	0.1 % to 2.0 %
		Carbohydrate	AOAC (18 th Ed) Official Method 986.25 (By Computation)	30 g/100g to 70 g/100g

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		Energy (Calorific value)	IS 14433 (Part 1): 1997 (RA 2005) (By Computation)	450 Kcal/100g to 600 Kcal/100g
		Energy (calorific value)	IS 14433 (Part 1): 1997 (RA2005) (By Computation)	350 Kcal/100g to 500 Kcal/100g
6.	Honey	Moisture	Annexure-B-2 of IS 4941-1994 (RA 2002) Amd. 2011	13 g/100g to 25g/100g
		Optical Density at 660 nm	Annexure-H of IS 4941-1994 (RA 2002) Amd.2011	0.01 to 0.799
		Total reducing sugar	Annexure-C-1 of IS 4941-1994 (RA 2002) Amd.2011	50 g/100g to 85 g/100g
		Sucrose	Annexure-C-2 of IS 4941-1994 (RA 2002) Amd.2011	0.40 g/100g to 10 g/100g
		Ash	Annexure-D of IS 4941-1994 (RA 2002) Amd.2011	0.002 g/100g to 5 g/100g
		Acidity (as Formic acid)	Annexure-E of IS 4941-1994 (RA 2002) Amd.2011	0.01 g/100g to 0.5 g/100g
7.	Spices & Condiments	Extraneous matter	Clause 4 of IS 1797:1985 (RA 2009)	0.1 g/100g to 30 g/100gm
		Moisture /Loss on Drying	Clause 9 of IS 1797:1985 (RA 2009)	1 g/100g to 30 g/100g
		Total Ash	Clause 6 of IS 1797:1985 (RA 2009)	1 g/100g to 30 g/100g
		Acid insoluble ash	Clause 8 of IS 1797:1985 (RA 2009)	0.05 g/100g to 20 g/100g
		Water insoluble ash	Clause 7 of IS 1797:1985 (RA 2009)	0.5 m/100gm to 5 m/100gm
		Cold Water soluble extract	Clause 11 of IS 1797:1985 (RA 2009)	0.04 g/100g to 50 g/100g
		Alcohol soluble extract	Clause 10 of IS 1797:1985 (RA 2009)	0.04 g/100g to 50 g/100g
		Crude fibre	Clause 13 of IS 1797:1985 (RA 2009)	0.2 g/100g to 35 g/100g

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		Starch	Clause 9 of IS 4706 (Part 2): 1978 (RA 2009)	1 g/100g to 90 g/100g
		Acidity	Annexure A of IS 13242: 1991 (RA 2012)	0.5 % to 30 %
		Curcumin Content in Turmeric Powder/ Whole	Appendix B of IS 10925: 1984 (RA 2012)	1 % to 6 %
III.	WATER			
1.	Ground Water, Packaged Drinking Water, Packaged Natural Mineral Water	pH	IS 3025 (Part 11): 1983 (RA 2006)	2 to 12
		Total Residue (Total solids-Dissolved & Suspended)	IS 3025 (Part 15): 1984 (RA 2009)	20 mg/l to 1500 mg/l
		Total dissolved solid	IS 3025 (Part 16): 1984 (RA 2006)	20 mg/l to 1500 mg/l
		Total alkalinity (as CaCO ₃)	IS 3025 (Part 23): 1986 (RA 2009)	10 mg/l to 500mg/l
		Total Hardness (as CaCO ₃)	IS 3025 (Part 21): 1983 (RA 2006)	5 mg/l to 1000 mg/l
		Calcium (as Ca)	IS 3025 (Part 40): 1991 (RA 2009)	2 mg/l to 500 mg/l
		Magnesium (as Mg)	IS 3025 (Part 46): 1994 (RA 2009) By Calculation	2 mg/l to 500 mg/l
		Chloride (as Cl)	IS 3025 (Part 32): 1988 (RA 2009)	5 mg/l to 400 mg/l