

Laboratory	Standard Analytical Laboratory (ND) Pvt. Ltd., 69, Functional Industrial Estate, Patparganj, Delhi		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	31.01.2014
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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
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I. DRUGS & PHARMACEUTICALS

A. DRUGS (Drugs Raw Material)

1.	Aspirin	Identification	I.P.-2010(Vol-2) Page No. 842-843	As per Specification
		Appearance of Solution		As per specification
		Heavy Metals		Comparative
		Arsenic		>0.01 ppm
		Chlorides		Comparative
		Sulphates		Comparative
		Sulphated Ash		Max.0.05% to 10%
		Loss on Drying		0.05% to 20%
		Readily Carbonisable Substances		As per specification
		Salicylic Acid		0.01% w/w to 10%
		Clarity of Solution in Alkali		As per specification
		Assay		50% to 110%
2.	Aluminium Hydroxide Gel	Identification	I.P.-2010(Vol-2) Page No. 788-789	As per specification
		pH		1.0 to -14.0
		Heavy Metals		Comparative
		Arsenic		> 0.01ppm
		Chlorides		Comparative
		Sulphates		Comparative
		Neutralizing Capacity		As per specification
		Assay		50% to 110%

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3.	Aminophylline	Heavy Metals	I.P.- 2010(Vol-2) Page No.799-800	Comparative
		Related Substances Sulphated Ash Water Assay	I.P.- 2007	Comparative Test Max. 0.05% - 10% Max 0.02%- 50% 50% to 110%
4.	Ammonium Chloride	Identification pH Appearance of solution Heavy Metals Arsenic Iron Sulphates Sulphated Ash Loss on Drying Calcium Thiocyanate	I.P.- 2010(Vol-2) Page No.810-811	As per specification 1.0 to 14.0 As per specification Comparative >0.01ppm Comparative Comparative 0.01% to 10 % 0.05% to 20% Comparative As per specification
		Assay	I.P. - 2010	50% to 110%
5.	Ampicillin Trihydrate	Identification Appearance of Solution	IP-2010(Vol-2) Page No. 828-829	As per specification Comparative
		N,N Dimethyl aniline Heavy Metal Sulphated Ash Water Assay		Comparative Comparative 0.01% to 10% 0.02% to 50% 50% to 110%

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6.	Ampicillin IP	Identification pH Appearance of Solution Specific Optical Rotation Heavy Metals Sulphated Ash Water Assay	I.P.- 2010(Vol-2) Page No.822-823	Test as per specification 1.0 to 14.0 Comparative test as per specification 0° to ± 360° Comparative 0.01% to 10% 0.02% to 50% 50% to 110%
7.	Amoxycillin Trihydrate	Identification pH Appearance of Solution N, N Dimethyl aniline Heavy Metal Sulphated Ash Water SOR Assay	IP2010(Vol-2) Page No. 816-817	As per specification 1 to 14 Comparative Comparative Comparative 0.01% to 10% 0.02% to 50%/ 0° to 360° 50% to 110%
8.	Dried Aluminium Hydroxide Gel IP	Identification pH Heavy Metal Arsenic Chlorides Sulphates Assay Neutralizing Capacity Microbial Contamination	I.P.- 2010 (Vol-2) Page No. 789	Test as per specification 1.0 to 14.0 Comparative > 0.01 ppm Comparative Comparative 50% to 110% Test as per specification As per specification

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9.	Albendazole	Identification Heavy Metal Assay LOD Sulphated Ash	IP 2010(Vol-2) page 780-781	As per Specification Comparative 50% to 110% 0.1% to 20% 0.01% to 10%
10.	Ascorbic Acid IP	Identification pH Appearance of Solution Specific Optical Rotation Heavy Metals Sulphated Ash Assay Oxalic Acid Light Absorption	I.P.- 2010(Vol-2) Page No. 839 I.P.- 2010	Tests as per specification 1.0-14.0 Comparative tests as per specification 0° to ± 360° Comparative 0.01%-10% 50% to 110% Min. 0.1% Confirmative test as per specification
11.	Atropine Sulphate	Identification pH Specific Optical Rotation Sulphated Ash Water Apoatropine Foreign Alkaloids and Decomposition product Assay	I.P.- 2010(Vol-2) Page No. 852-853	As per specification 1 to 14 0° to +360° 0.01% to 10% 0.02% to 50% As per specification As per specification 50% to 110%

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12.	Benzhexol HCl	Identification pH Sulphated Ash Loss on Drying Piperidylpropionophenone Assay	I.P.- 2010 (Vol-2) Page No. 884-885	As per specification 1.0-14.0 0.01%-10% 0.05%- 20% As per specification 50% to 110%
13.	Benzocaine	Identification Appearance of Solution Heavy Metals Chlorides Sulphated Ash Loss on Drying Acidity or Alkalinity Assay	I.P.- 2010 (Vol 2) Page No. 886 I.P.- 2010	As per specification As per specification Comparative Comparative 0.01%-10% 0.05%-20% As per specification 50% to 110%
14.	Benzoic Acid	Identification Appearance of Solution Heavy Metals Arsenic Sulphated Ash Water Readily Oxidisable substances Readily Carbonisable substances Cinnamic Acid Chlorinated Compound Assay	I.P.- 2010(Vol 2) Page No. 886-887	As per specification -do- Comparative > 0.01 ppm 0.01% to 10% 0.02%- 50% As per specification As per specification As per specification As per specification 50% to 110%

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15.	Bromhexine HCl IP	Identification Related Substances Sulphated Ash Loss on Drying Assay	I.P.- 2010 (Vol 2) Page No. 921-922	Tests as per specification Comparative tests as per specification 0.01%-10% 0.05%-20% 50% to 110%
16.	Betamethasone IP	Identification Specific Optical Rotation Light Absorption Sulphated Ash Loss on Drying Assay	I.P.- 2010(Vol 2) Page No. 899-900	Test as per specification 0° ± 360° 0.01 to 1.1 0.01%-10% 0.05%-20% 50% to 110%
17.	Beclomethasone Dipropionate IP	Identification Specific Optical Rotation Light Absorption Sulphated Ash Loss On Drying Assay	I.P.- 2010 (Vol 2) Page No. 873-874	Test as per specification +0° + 360° Test as per specification 0.01% to 10% 0.05% to 20%
18.	Bisacodyl	Identification Sulphated Ash Loss on Drying Acidity or Alkalinity Assay	I.P.- 2010 (Vol 2) Page No. 915-916	As per specification 0.01% to 10% 0.05% to 20% As per specification 50% to 110%

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19.	Caffeine IP	Identification Acidity or Alkalinity Appearance of Solution Heavy Metals Arsenic Related Substances Sulphated Ash Loss on Drying Assay	I.P.- 2010 (Vol 2) Page No. 953	Tests as per specification As per Specification Comparative tests as per specification Comparative >0.01ppm Comparative tests as per specification 0.01% to 10% 0.05% to 20% 50% to 110%
20.	Calcium Carbonate IP	Identification Heavy Metals Arsenic Iron Chloride Sulphate Loss on Drying Assay Barium Substances insoluble in Acetic Acid Magnesium & Alkali metals	I.P.- 2010 (Vol 2) Page No. 961-962	Tests as per specification Comparative >0.01ppm Comparative Comparative Comparative 0.05% to 20% 50% to 110% Confirmative test as per specification As per specification As per specification

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21.	Calcium Pantothenate	Identification pH Appearance of Solution Specific Optical Rotation Heavy Metals Loss on Drying Assay	I.P.- 2010 (Vol 2) Page No. 969-970	As per specification 1 to 14 As per specification 0 ° ± 360° Comparative 0.05% to 20% 50% to 110%
22.	Calcium Lactate	Identification Heavy Metals Arsenic Chloride Sulphates Iron Loss On Drying Acidity & Alkalinity Reducing Sugar Assay	I.P.- 2010 (Vol 2) Page No. 967	As per specification Comparative >0.01ppm Comparative Comparative Comparative 0.05% to 20% As per specification -do- 50% to 110%
23.	Calcium Gluconate	Identification Appearance of Solution Heavy Metals Arsenic Chloride Sulphate Acidity or Alkalinity Sucrose & Reducing sugar Assay	I.P.- 2010 (Vol 2) Page No. 965	As per specification -do- Comparative >0.01ppm Comparative Comparative As per specification -do- 50% to 110%

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24.	Calcium Chloride	Identification Appearance of solution Heavy Metals Arsenic Iron Sulphate Acidity or Alkalinity Barium Aluminium & Phosphate Magnesium & Alkali Salt Assay	I.P.- 2010 (Vol 2) Page No. 962-963	As per specification -do- Comparative >0.01ppm Comparative Comparative As per specification -do- -do- -do- 50% to 110%
25.	Calamine	Identification Arsenic Chloride Sulphate Loss in Ignition Acid insoluble Alkaline Substances Water soluble Dyes Ethanol Soluble Dyes Lead Calcium Soluble barium salt Assay	I.P.- 2010 (Vol 2) Page No. 953-954 I.P.- 2010 (Vol 2)	As per Specification >0.01ppm Comparative Comparative 0.05% to 50% As per specification As per specification As per specification As per specification As per specification As per specification As per specification 50% to 110%

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26.	Clofazimine	Identification Heavy Metals Related Substances Sulphate Ash Loss on Drying Assay	I.P.- 2010 (Vol 2) Page No. 1107-1108	As per Specification Comparative As per Specification 0.01% to 10% 0.05% to 20% 50% to 110%
27.	Codeine Phosphate	Identification pH Appearance of Solution Specific Optical Rotation Chloride Sulphate Loss on Drying Morphine Foreign Alkaloids Assay	I.P.- 2010 (Vol 2) Page No. 1128-1129	As per Specification 1.0 to 14.0 As per Specification -0° to -360° Comparative Comparative 0.05% to 20% As per Specification -do- 50% to 110%
28.	Cetrimide	Identification Appearance of Solution Sulphated Ash Loss & Drying Acidity or Alkalinity Amine Salts Assay	I.P.- 2010 (Vol 2) Page No. 1041	As per specification -do- 0.01% to 10% 0.05% to 20% As per specification -do- 50% to 110%

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29.	Cetyl Alcohol	Appearance of Solution Melting Range Acid Value Hydroxyl Value Iodine Value Saponification Value	I.P.- 2010 (Vol 2) Page No. 1042	As per specification 1 ⁰ to 300 ⁰ Min. 0.1 1 to 300 0.5 to 100 0.5 to 250
30.	Chlorpromazine HCl	Identification pH Heavy Metals Related Substances Sulphated Ash Loss & Drying Assay	I.P.- 2010 Page No. 1072-1073	As per specification 1.0 to 14.0 Comparative As per specification 0.01% to 10% 0.05% to 20% 50% to 110%
31.	Citric Acid Anhydrous	Identification Appearance of Solution Heavy Metals Arsenic Chloride Sulphate Sulphated Ash Water Barium Calcium Oxalic Acid Readily Carbonisable Substances Assay Iron	I.P.- 2010 Page No. 1099-1100	As per specification -do- Comparative >0.01ppm Comparative Comparative 0.01% to 10% 0.02% to 50% As per specification Comparative As per specification -do- 50% to 110% Comparative

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32.	Citric Acid Monohydrate	Identification Appearance of Solution Heavy Metals Arsenic Chloride Sulphate Sulphated Ash Water Barium Calcium Oxalic Acid Readily Carbonisable substances Assay Iron	I.P.- 2010 (Vol 2) Page No. 1100-1101	As per specification -do- Comparative >0.01ppm. Comparative Comparative 0.01% to 10% 0.02% to 50% As per specification Max. 200 ppm As per specification As per specification 50% to 110% Comparative
33.	Dibasic Calcium Phosphate	Identification Loss on Ignition Heavy Metals Arsenic Iron Chloride Sulphate Acid Insoluble Substances Barium Carbonate Reducing Substances Proteinous impurities Monocalcium & Tricalcium Phosphate Nitrate Assay	I.P.- 2010 (Vol 2) Page No. 970 I.P. - 2010	As per specification 0.5% - 50% Comparative >0.01ppm Comparative Comparative Comparative 0.01% to 50% As per specification As per specification As per specification As per specification As per specification As per specification 50% to 110%

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34.	Tribasic Calcium Phosphate	Identification Heavy Metals Arsenic Iron Chloride Sulphate Loss on Ignition Water Acid Insoluble Substances Water Soluble Substances Carbonate Proteinous Impurities Assay	I.P.- 2010 (Vol 2) Page No. 970-971	As per specification Comparative >0.01ppm Comparative Comparative Comparative 0.5 to 50% 0.02% to 50% 0.01% to 50% Max. 0.1% to 50% As per Specification -do- 50% to 110%
35.	Dapsone	Identification Related Substances Sulphated Ash Loss on Drying Assay	I.P.- 2010 (Vol 2) Page No. 1162	As per specification -do- 0.01% to 10% 0.05% to 20% 50% to 110%
36.	Diphenhydramine HCL	Identification pH Appearance of Solution Related Substances Sulphated Ash Loss on Drying Assay	I.P.- 2010 (Vol 2) Page No. 1232-1233	As per specification 1.0 to 14.0 As per specification -do- 0.01% to 10% 0.05% to 20% 50% to 110%

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37.	Dexamethasone	Identification Specific optical rotation Sulphated Ash Loss on Drying Light Absorption Assay	I.P. 2010 Page No. 1171-1173	As per specification 0° to 360° 0.01% to 10% 0.05% to 20% As per specification 50% to 110%
38.	Dexamethasone Sodium Phosphate	Identification pH Specific optical rotation Inorganic Phosphate Free Dexamethasone Ethanol & Total Ethanol Water Assay	I.P. 2010 Page No. 1175-1176	As per specification 1.0 to 14.0 0° to 360° As per specification Max. 1% Max. 3.0% Max. 16% 50% to 110%
39.	Dicyclomine HCL IP	Identification Related Substances Sulphated Ash Loss on Drying Assay	I.P.- 2010 (Vol 2) Page No. 1104-1105	Test as per specification Comparative tests as per specification 0.01% to 10% 0.05% to 20% 50% to 110%
40.	Diazepam IP	Identification Related Substance Heavy Metals Sulphated Ash Loss on Drying Assay	I.P.- 2010 (Vol 2) Page No. 1194-1195	Test as per specification Comparative Comparative 0.01% to 10% 0.05% to 20% 50% to 110%

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41.	Dextromethorphan Hydrobromide IP	Identification Acidity or Alkalinity Appearance of Solution Specific Optical Rotation Sulphated Ash Water Assay N-N Dimethyl Aniline Related Substances & Decomposition Products	I.P.- 2010 (Vol 2) Page No. 1186-1187	Test as per specification Comparative tests as per specification -do- 0 ⁰ to 360 ⁰ 0.01% to 10% 0.02% to 50% 50% to 110% Comparative Comparative tests as per specification
42.	Dextrose IP	Identification Acidity or Alkalinity Appearance & odour of Solution Specific Optical Rotation Heavy Metals Arsenic Chlorides Sulphate Sulphated Ash Water Sulphite Barium Foreign Sugars, Soluble Starch and dextrines	I.P.- 2010 (Vol 2) Page No. 1190-1191 I.P.- 2010 (Vol 2)	Test as per specification Comparative tests as per specification As per Specification + 0 ⁰ to + 360 ⁰ Comparative >0.01ppm Comparative 0.05% to 10% 0.01% to 10% 0.02% to 50% Comparative As per specification As per specification

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43.	Cloxacillin Sodium IP	Identification pH Appearance of Sol. Specific Optical Rotation Water Assay	I.P.- 2010 (Vol 2) Page No. 1123-1124	Test as per specification 1 –14 Test as per specification + 0° + 360° 0.02% to 50% 50% to 110%
44.	Cimetidine IP	Identification Heavy Metals Sulphated Ash Loss on Drying Assay	I.P.- 2010 (Vol 2) Page No. 1086-1087	Tests as per specification Comparative 0.05% to 10% 0.05% to 20% 50% to 110%
45.	Chlorpheniramine Maleate IP	Identification pH Appearance of Sol. Related Substances Sulphated Ash Loss On Drying Assay	I.P.- 2010 (Vol 2) Page No. 1070-1071 I.P.- 2010 (Vol 2)	Tests as per specification 1.0 to 14.0 Comparative tests as per specification -do- 0.01% to 10% 0.05% to 20% 50% to 110%
46.	Chloroquine Phosphate IP	Identification pH Appearance of Solution Heavy Metals	I.P.- 2010 (Vol 2) Page No. 1061-1062	Tests as per specification 1.0 to 14.0 Comparative tests as per specification Comparative

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		Related Substances	I.P.- 2010 (Vol 2) Page No. 1061-1062	Comparative tests as per specification 0.02% to 50% 50% to 110%
		Water Assay		
47.	Cephalexin IP	Identification	I.P.- 2010 (Vol 2) Page No. 1031-1032	Tests as per specification
		pH	I.P.- 2010	1.0 to 14.0
		Specific Optical Rotation		+0° + 3600
		Light Absorption		Comparative tests as per specification
		Sulphated Ash		0.01% to 10%
		Water Assay		0.02% to 50% 50% to 110%
48.	Diloxanide Furoate IP	Identification	I.P.2010 Page No.1225-1226	Tests as per specification
		Related Substances		Comparative tests as per specification
		Sulphated Ash		0.01% to 10%
		Loss On Drying		0.05% to 20%
		Assay		50 % to 110%
		Free Acidity		Confirmative test as per specification
49.	Activated Dimethicone IP	Identification	I.P.- 2010 (Vol 2)	Tests as per specification
		Acidity	Page No. 1230-31	Comparative tests as per specification
		Heavy Metals		Comparative
		Assay for polydimethyl Siloxane		50% to 110 %

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		Assay for Silicodioxide Defoaming Activity	I.P.- 2010 (Vol 2) Page No. 1230-31	1% to 10% NMT 15 secs
50.	Disodium Edetate IP	Identification PH	I.P.- 2010 (Vol 2) Page No. 1234-1235	Tests as per specification 1.0 to 14.0
		Appearance of Solution	I.P.- 2010	Comparative tests as per specification
		Heavy Metals Iron Assay		Comparative Comparative 50% to 110%
51.	Ethambutol Hydrochloride IP	Identification PH Specific Optical Rotation Heavy Metals Sulphated Ash Loss On Drying Assay 2-Aminobutol	I.P.- 2010 (Vol 2) Page No. 1299-1301	Tests as per specification 1.0 to 14.0 + 0° to + 360° Comparative 0.01% to 10% 0.05% to 20% 50% to 110% Comparative tests as per specification
52.	Frusemide IP	Identification Heavy Metals Chloride Sulphate Sulphated Ash Loss On Drying Assay Free Amines	I.P.- 2010 (Vol 2) Page No. 1391-1392	Tests as per specification Comparative Comparative Comparative 0.01% to 10% 0.05% to 20% 50% to 110% Test as per specification

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53.	Ferrous Fumarate	Identification Heavy Metals Arsenic Sulphate Loss On Drying Ferric Iron Assay	I.P.- 2010 Page No. 1341-1342 I.P.- 2010	As per specification Comparative >0.01ppm Comparative 0.05% to 20% As per specification 50% to 110%
54.	Ferrous Gluconate	Identification pH Appearance of Solution Heavy Metals Arsenic Chloride Sulphate Loss on Drying Reducing Sugars Barium Ferric Iron Oxalic Acid Assay	I.P.- 2010 Page No. 1342-1343	As per specification 1.0 to 14.0 As per specification Comparative >0.01ppm Comparative Comparative 0.05% to 20% As per specification Comparative Min 0.1 % As per specification 50% to 110%
55.	Dried Ferrous Sulphate	Identification Arsenic Copper Lead Zinc Manganese Basic Sulphate Assay	I.P.- 2010 Page No.1345-1346	As per specification >0.01ppm Comparative Comparative Comparative Comparative Comparative 50% to 110%

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56.	Folic Acid	Identification Specific Optical Rotation Sulphated Ash Water Free Amines Assay	I.P.- 2010 Page No. 1384-1385	As per specification + 0° to + 360° 0.01% to 10% 0.02% to 50% As per specification 50% to 150%
57.	Furazolidone	Identification pH Sulphated Ash Loss on Drying Assay	I.P.- 2010 Page No. 11394-1395	As per specification 1.0 to 14.0 0.01% to 10% 0.05% to 20% 50% to 110%
58.	Ibuprofen IP	Identification Optical Rotation Heavy Metals Sulphated Ash Loss On Drying Assay Appearance of Solution	I.P.- 2010 Page No. 1479-1480	Tests as per specification +0° to -360° Comparative 0.01 % to 10% 0.01% to 20% 50% to 110% As per Specification
59.	Hydrochloric Acid	Identification Heavy Metals Arsenic Sulphates Residue on evaporation Bromide and Iodide Free Chlorine Sulphite Assay	I.P.- 2010 Page No. 1450	As per specification Comparative >0.01ppm Comparative Min 0.05% As per specification -do- -do- 10% to 50%

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60.	Iron & Ammonium Citrate	Identification Arsenic Chloride Sulphates Lead Zinc Free Ferric Compounds Assay	I.P.- 2010 Page No. 1511-1512 I.P.- 2010	As per specification >0.01ppm Comparative Comparative Comparative Comparative As per specification 10% to 110%
61.	Isoniazid	Identification pH Appearance of Solution Heavy Metals Sulphated Ash Loss on Drying Hydrazine Related Substances Assay	I.P.- 2010 Page No. 1515-1516	As per specification 1.0 to 14.0 As per specification Comparative 0.01% to 10% 0.05% to 20% As per specification -do- 50% to 110%
62.	Isoxsuprine Hydrochloride	Identification pH Heavy Metals Sulphated Ash Loss on Drying Phenones Assay	I.P.- 2010 Page No. 1527-1528	As per specification 1.0 to 14.0 Comparative 0.01% to 10% 0.05% to 20% As per specification 50% to 110%

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63.	Lignocaine Hydrochloride	Identification pH Appearance of Solution Heavy Metals Sulphates Sulphated Ash Water Assay 2-6 dimethyl Aniline	I.P.- 2010 Page No. 1584-1585	As per specification 1.0 to 14.0 As per specification Comparative Comparative 0.01% to 10% 0.02% to 50% 50% to 110% Comparative
64.	Methyl Paraben IP	Identification Acidity Appearance of Solution Chlorides Sulphate Related Substances Sulphated Ash Assay	I.P.- 2010 Page No. 1672-1673	Test as per specification Confirmative test as per Specification Comparative Comparative Comparative -do- 0.01% to 10% 50% to 110%
65.	Magnesium Sulphate	Identification Appearance of Solution Heavy Metals Arsenic Iron Chlorides Loss on Drying Acidity or Alkalinity Assay	I.P.- 2010 Page No.1626-1627 I.P.- 2010	As per specification -do- Comparative >0.01ppm Comparative Comparative 0.05% to 20% As per specification 10% to 110%

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66.	Magnesium Stearate	Identification Appearance of Solution Heavy Metals Chloride Sulphate Loss or Drying Acidity or Alkalinity Appearance of Solution of the Fatty acids Acid Value of the fatty acids Free Stearic Acid Zinc Stearate Assay	I.P.- 2010 Page No. 11625-1626	As per specification -do- Comparative Comparative Comparative Max. 6.0% As per specification -do- Min. 1.0 to 300 Min. 1% to 20% As per specification 1.0% to 10%
67.	Magnesium Trisilicate	Identification Heavy Metals Arsenic Chlorides Sulphates Loss on Ignition Alkalinity Acid Absorption Water Soluble Salts Assay for MgO Assay of SiO ₂	I.P.-2010 Page No.1626-1627	As per specification Comparative >0.01ppm Comparative Comparative 0.05%. to 50% As per specification -do- -do- 10% to 110% NLT 65%
68.	Methyl Salicylate	Identification Appearance of Solution Acidity Refractive Index Weight / ml Assay	I.P.- 2010 Page No. 1666	As per specification -do- As per specification 1.3 to 1.7 0.8 to 1.5 gm 50% to 110%

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69.	Metronidazole Benzoate	Identification pH Related Substances Sulphated Ash Loss on Drying Free Benzoic Acid Assay	I.P.- 2010 Page No. 1683-1684	As per specification 1.0 to 14.0 Comparative test as per specification 0.01% to 10% 0.05% to 20% Max. 0.2% 50% to 110%
70.	Microcrystalline Cellulose	Identification pH Heavy Metals Arsenic Sulphated Ash Loss on Drying Starch and Dextrins Organic Impurities Water Soluble Substances Assay	I.P.- 2010 Page No. 1695	As per specification 1.0 to 14.0 Comparative >0.01ppm 0.05% to 10% 0.05% to 20% As per specification -do- 0.1% to 50% 90% to 110%
71.	Morphine Sulphate	Identification Sulphated Ash Loss on Drying Acidity Other Alkaloids Assay	I.P.- 2010 Page No. 1706-1707	As per specification 0.01% to 10% 0.05% to 20% As per specification -do- 50% to 110%

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72.	Niacinamide IP	Identification pH Appearance of Solution Heavy Metals Chlorides Sulphates Related Substances Sulphated Ash Loss on Drying Assay	I.P.- 2010 Page No.1775-1776	Test as per specification 1.0 to 14.0 Comparative tests as per specification Comparative Comparative Comparative Comparative tests as per specification 0.01% to 10% 0.05% to 20% 50% to 110%
73.	Metronidazole IP	Identification Appearance of Solution Heavy Metals Related Substances Sulphated Ash Loss on Drying Assay	I.P.- 2010 Page No. 1680-1683	Test as per specification Comparative tests as per specification Comparative Comparative tests as per specification 0.01% to 10% 0.05% to 20% 50% to 110%
74.	Potassium Permanganate	Identification Appearance of Solution Chlorides Sulphates Water Insoluble Matter Assay	I.P.- 2010 Page No. 1940	As per specification Comparative test as per specification Comparative Comparative Min. 0.1% 50% to 110%

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75.	Phenol	Identification Appearance of Solution. Acidity Freezing Point Non Volatile Matter Assay	I.P.-2010 Page No. 1893-1894	As per specification Comparative test as per specification As per specification Min.0° to 150° Min. 0.01% 50% to 110 %
76.	Phenobarbitone Sodium	Identification Appearance of Solution pH Related Substances Loss on Drying Assay	I.P.- 2010 Page No. 1891-1892	As per specification Comparative test as per specification 1.0 to 14.0 As per specification 0.05% to 20% 50% to 110%
77.	Phenobarbitone	Identification Appearance of Solution Related Substances Sulphated Ash Loss on Drying Acidity Assay	I.P.- 2010 Page No. 1890-1891	As per specification Comparative test as per specification As per specification 0.01% to 10% 0.05% to 20% As per specification 50% to 110%

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78.	Propylene Glycol IP	Identification Acidity Appearance of Solution Heavy Metals Sulphated Ash Water Boiling Range Relative Density Refractive Index Oxidizing Substances Reducing Substances Ethylene Glycols & Diethylene glycol	I.P.- 2010 Page No. 1990-1991	Test as per specification Confirmative tests as per specification Confirmative tests as per specification Comparative 0.001% to 10% 0.02% to 50% 30° – 300° 0.5 to 1.8 1.3 to 1.7 Confirmative test as per specification -do- Comparative
79.	Paracetamol IP	Identification Heavy Metals Related Substances Sulphated Ash Loss on Drying Assay 4-Aminophenol	I.P.- 2010 Page No. 1859-1860	Test as per specification Comparative Comparative 0.01% - 10% 0.05% to 20% (±) 10 % of limits/0.1% Comparative

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80.	Propyl Paraben IP	Identification Acidity Appearance of Solution Chlorides Sulphates Related Substances Sulphated Ash Loss on Drying Assay	I.P.- 2010 Page No. 1991-1992	Test as per specification Confirmative tests as per specification Comparative Comparative Comparative Comparative 0.01% - 10% 0.05% to 20% 50% to 110%
81.	Pyrazinamide IP	Identification Appearance of Solution Heavy Metals Related Substances Sulphated Ash Water Assay Acidity or alkalinity	I.P.- 2010 Page No. 2004-2005	Test as per specification -do- Comparative Comparative tests as per specification 0.01% to 10% 0.02% to 50% 50% to 110% As per specification
82.	Pyridoxine Hydrochloride IP	Identification pH Appearance of Solution Heavy Metals Related Substances Sulphated Ash Loss on Drying Assay	I.P.- 2010 Page No. 2005-2006	Test as per specification 1.0 to 14.0 Comparative tests as per specification Comparative Comparative tests as per specification 0.01% to 10% 0.01% to 20% 50% to 110%

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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
83.	Pseudoephedrine HCl IP	Identification pH Appearance of Solution Specific optical Rotation Related Substances Sulphated Ash Loss on Drying Assay	I.P.- 2010 Page No. 1999-2000	Test as per specification 1.0 to 14.0 Comparative tests as per specification $+ 0^{\circ} \pm 360^{\circ}$ Comparative tests as per specification 0.01% to 10% 0.05% to 20% 50% to 110%
84.	Riboflavin IP	Identification pH Heavy Metals Sulphated Ash Loss on Drying Assay Lumiflavine Light Absorption	I.P.- 2010 Page No. 2050	Test as per specification 1.0 to 14.0 Comparative 0.01% to 10% 0.05% to 20% 50% to 110% Comparative tests as per specification -do-
85.	Rifampicin	Identification pH Heavy Metals Sulphated Ash Loss on Drying Assay	I.P.- 2010 Page No. 2054-2055	As per specification 1.0 to 14.0 Comparative 0.01% to 10% 0.05% to 20% 50% to 110%

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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
86.	Salicylic Acid	Identification Appearance of Solution Heavy Metals Iron Chlorides Sulphates Sulphated Ash Loss on Drying Assay	I.P.- 2010 Page No. 2089-2090	As per specification -do- Comparative Comparative Comparative Comparative 0.01% to 10% 0.01% to 20% 50% to 110%
87.	Sodium Benzoate	Identification Appearance of Solution Heavy Metals Arsenic Loss on Drying Acidity or Alkalinity Chlorinated Compounds Assay	I.P.- 2010 Page No. 2110	As per specification -do- Comparative >0.01ppm 0.05% to 20% As per specification Comparative 50% to 110%
88.	Sodium Bicarbonate	Identification Appearance of Sol. Heavy Metals Arsenic Calcium Iron Chloride Sulphate Carbonate Assay	I.P.- 2010 Page No. 2111	As per specification Comparative as per specification Comparative >0.01ppm Comparative test as per specification Comparative Comparative Comparative As per specification 50% to 110%

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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
89.	Sodium Salicylate	Identification Appearance of Solution Heavy Metals Arsenic Chlorides Sulphates Loss on Drying Acidity Assay	I.P.- 2010 Page No.2134-2135	As per specification -do- Comparative >0.01ppm Comparative Comparative 0.05% to 20% As per Specification 50% to 110%
90.	Sodium Methyl Paraben	Identification pH Appearance of Solution Chlorides Sulphates Water Assay	I.P.- 2010 Page No.2132-33 I.P.- 2010	As per specification 1.0 to 14.0 As per specification Comparative Comparative 0.02% to 50% 50% to 110%
91.	Sodium Propyl Paraben	Identification pH Chloride Sulphate Water Appearance of Solution Assay	I.P.- 2010 Page No.2134	As per specification 1.0 to 14.0 Comparative Comparative 0.02% to 50% As per specification 50% to 110%

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92.	Sodium Chloride IP	Identification Acidity or Alkalinity Appearance of Solution Heavy Metals Arsenic Iron Loss on drying Assay Sulphates Barium Bromide Calcium & Magnesium Ferro Cyanide Iodide Potassium Aluminium	I.P.- 2010 Page No.2112-2113	Tests as per specification Comparative Tests as per specification -do- Comparative >0.01ppm Comparative 0.05% to 20% 50% to 110% Comparative Comparative Tests as per specification Max. 100 ppm NMT 50 ppm Comparative Tests as per specification -do- Min. 0.001% Min. 0.001%
93.	Colloidal Silicon Dioxide IP	Identification pH Heavy Metals Arsenic Chlorides Loss on Ignition Assay	I.P.- 2010 Page No. 2099-2100 I.P.- 2010	Tests as per specification 1.0 to 14.0 Comparative >0.01ppm Comparative 0.5% to 50% 50% to 110%

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94.	Sodium Citrate IP	Identification Acidity or Alkalinity Appearance of Solution Heavy Metals Arsenic Chlorides Sulphates Water Assay Oxalate Tartrates Rediyl Carbonisable Substance	I.P.- 2010 Page No. 2118-2119	Tests as per specification -do- Comparative test as per specification Comparative >0.01ppm Comparative Comparative 0.02% to 50% 50% to 110% Comparative As per specification As per specification
95.	Sorbitol I.P. 70% (Non crystallizing)	Identification Acidity or Alkalinity Appearance of Solution Specific Optical Rotation Heavy Metals Arsenic Chloride Sulphate Sulphate Ash Assay Reducing Sugars Nickel Refractive index Relative density	I.P.- 2010 Page No. 2145-2146	Tests as per specification -do- As per specification 0° to 360° Comparative >0.01ppm Comparative Comparative 0.01% to 10% 50% to 110% Tests as per specification Comparative 1.3 to 1.7 0.5 to 1.8

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96.	Sucrose I.P.	Identification Acidity or Alkalinity Specific Optical Rotation Heavy Metals Sulphated Ash Barium Calcium Sulphite Dextrins Glucose & Invert Sugar Colouring Matter	I.P.- 2010 Page No. 2166-2167 I.P.- 2007	Tests as per specification -do- $\pm 0^0 \pm 360^0$ Comparative 0.01% to 10% As per specification As per specification As per specification As per specification Min. 10mg/20gm As per specification & Comparative test as per specification
97.	Sulphacetamide Sodium I.P	Identification pH Appearance of Solution Heavy Metals Sulphates Related Substances Water Assay	I.P.- 2010 Page No. 2167-2168 I.P.- 2010	Tests as per specification 1.0 to 14.0 Comparative Tests as per specification Comparative Comparative Comparative test as per specification 0.02% to 50% 50% to 110%

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98.	Thiamine Hydrochloride	Identification	I.P.- 2010 Page No. 2209-2210	As per specification
		pH		1.0 to 14.0
		Appearance of Solution		Comparative test as per specification
		Heavy Metals		Comparative
		Sulphates		Comparative
		Sulphate Ash		0.01% to 10%
		Loss on Drying		0.05% to 20%
99.	Tinidazole IP	Nitrates	I.P.- 2010 Page No. 2226-2227	As per specification
		Assay		(±) 10 % of limits/0.1%
		Identification		Tests as per specification
		Related Substances		Comparative test as per specification
		Sulphated Ash		0.05% to 10%
100.	Trimethoprim IP	Loss on Drying	I.P.- 2010 Page No.2264-2265	0.05% to 20%
		Assay		50% to 110%
		Identification	I.P.- 2010	Tests as per specification
		Appearance of Solution		Comparative test as per specification
		Heavy Metals		Comparative
		Related Substances		Comparative
		Sulphated Ash		0.01% to 10%
		Loss on Drying		0.05% to 20%
		Assay		50% to 110%

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101.	Zinc Oxide	Identification Arsenic Iron Loss on Ignition Alkalinity Carbonate and Substances Insoluble in acids Lead Assay	I.P.- 2010 Page No.2336	As per specification >0.01ppm Comparative 0.01% to 50% As per specification Comparative Comparative 50% to 110%
102.	Zinc Chloride	Identification pH Sulphates Aluminium, calcium heavy metals, Iron & Magnesium Ammonium Salts Oxychlorides Assay	I.P.- 2010 Page No.2335-2336	As per specification 1.0 to 14.0 Comparative As per specification As per specification As per specification 50 % to limits/0.1%
103.	Zinc Sulphate IP	Identification pH Appearance of Solution Arsenic Iron Chlorides Assay	I.P.- 2010 Page No.2337-2338	Tests as per specification 1.0 to 14.0 Comparative Tests as per specification >0.01ppm Comparative Comparative 50% to 110%

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B. DRUGS (FINISHED PRODUCT)

1.	Albendazole Tablets I.P.	Identification Other tests Assay	I.P.- 2010 VOL.2Page No. 781	Tests as per specification +-10%of specified limits 50% to 150%.
2.	Amoxicillin Trihydrate Capsules IP	Identification Other tests Dissolution Assay	I.P.- 2010 VOL.2 Page No. 813-814	Tests as per specification +-10%of specified limits 50% to 100% 50% to 150%
3.	Aminophyllin Tablets	Identification Other tests Assay	I.P.- 2010 VOL.2 Page No. 801-802	As per Specification +-10%of specified limits 50% to 150%
4.	Ampicillin Dispersible Tablets	Identification Uniformity of Dispersion Other tests Assay	I.P.- 2010 VOL.2Page No. 828	As per Specification -do- +-10%of specified limits 50% to 150%.
5.	Ascorbic Acid Tablets	Identification Disintegration Time Other tests Assay	I.P.- 2010 VOL.2Page No. 840	As per Specification -do- +-10%of specified limits 50% to 150%.
6.	Aspirin Tablets	Identification Salicylic Acid Other tests Assay	I.P.- 2010 VOL.2Page No. 843	As per Specification Min. 0.1% +-10%of specified limits 50% to 150%.

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7.	Soluble Aspirin Tablets	Identification Salicylic Acid Other tests Assay	I.P.- 2010 VOL.2Page No. 843	As per Specification Min. 0.1% +-10%of specified limits 50% to 150%.
8.	Aspirin & Caffeine Tablets	Identification Salicylic Acid Other tests Assay for Asprin Assay For Caffeine	I.P.- 2010 VOL.2Page No.844	As per Specification Min. 0.1% +-10%of specified limits 50% to 150%. 50% to 150%
9.	Bisacodyl Tablets	Identification Uniformity of Contents Other tests Assay	I.P.- 2010 VOL.2Page No. 917	As per Specification -do- +-10%of specified limits 50% to 150%
10.	Compound Benzoic Acid Ointment	Identification Assay for Benzoic acid Assay for Salicylic acid	I.P.- 2010 VOL.2 Page No. 887-888	As per Specification 50% to 150% 50% to 150%
11.	Bromhexine HCl Tablets	Identification Related Substances Assay Other tests	I.P.- 2010 VOL.2 Page No. 922-923	As per Specification -do- 50% to 150% +-10%of specified limits
12.	Cephalexin Capsules IP	Identification Assay Water Other tests	I.P.-2010 Page No. 1034-1035 I.P.-2010	Tests as per specification 50% to 150% 0.02% to 50% +-10%of specified limits

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13.	Calamine Lotion	Identification Microbial Contamination	I.P.- 2010 VOL.2Page No.955	As per Specification -do-
14.	Calcium Gluconate Tablets	Identification Other tests Assay	I.P.- 2010 VOL.2 Page No 966-967	As per Specification +-10%of specified limits 50% to 150%
15.	Calcium Lactate Tablets	Identification Disintegration Time Other tests Assay	I.P.- 2010 VOL.2 Page No 967-968	As per Specification +-10%of specified limits +-10%of specified limits 50% to 150%
16.	Chloroquine Phosphate Tablets I.P.	Identification Dissolution Assay Related substances Other test	I.P.- 2010 VOL.2 Page No. 1063-1064	Test as per specification 50% to 100% 50% to 150% Tests as per specification +-10%of specified limits
17.	Chloramphenicol Capsules	Identification Specific Optical Rotation Dissolution Other tests Assay	I.P.- 2010 VOL.2Page No. 1047	Test as per specification $\pm 0^0 \pm 360^0$ 50% to 100% +-10%of specified limits 50% to 150%
18.	Chlorpheniramine Maleate Tablets I.P.	Identification Assay Related Substances Uniformity of Content Other tests	I.P.- 2010 VOL.2 Page No.1071-1072 I.P.- 2010	Tests as per specification 50% to 150% Comparative Tests as per specification 50% to 150% +-10%of specified limits

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19.	Chlorpromazine HCl Tablets	Identification Uniformity of Content Related Substances Other tests Assay	I.P.- 2010 VOL.2 Page No. 1073-1074	As per Specification -do- -do- +-10% of specified limits 50% to 150%
20.	Cloxacillin Sodium Capsules I.P.	Identification Assay Dissolution Other tests	I.P.- 2010 VOL.2 Page No.1124-1125	Tests as per specification 50% to 150% 50% to 100% +-10% of specified limits
21.	Clofazimine Capsules	Identification Other tests Assay	I.P. 2010 Page No. 1108	As per specification +-10% of specified limits 50% to 150%
22.	Codeine Phosphate Syrup	Identification Related Substances Other tests Assay	I.P. 2010 Page No. 1129-1130	As per specification -do- +-10% of specified limits 50% to 150%
23.	Dapsone Tablets	Identification Related Substances Dissolution Other tests Assay	I.P.- 2010 VOL.2Page No. 1163	As per Specification -do- 50% to 100% +-10% of specified limits 50% to 150%
24.	Dexamethasone Sodium Phosphate Injection	Identification pH Other tests Assay	I.P.- 2010 VOL.2 Page No. 1176-1177	As per Specification 1.0 to 14.0 +-10% of specified limits 50% to 150%

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25.	Diazepam Tablets IP	Identification	I.P.- 2010 VOL.2	Tests as per specification
		Assay	Page No.1196-1197	50% to 150%
		Related Substances & decomposition Products	I.P.- 2010	Tests as per specification
		Dissolution		50% to 100%
		Uniformity of content		50% to 150%
26.	Diazepam Injection	Identification	I.P.- 2010 VOL.2Page No. 1196	As per specification
		pH		1.0 to 14.0
		Other tests		+/-10% of specified limits
		Assay		50% to 150%
27.	Diclofenac Sod. Tablets	Identification	I.P.- 2010 VOL.2	As per specification
		Other tests	Page No.1200-12001	+/-10% of specified limits
		Assay		50% to 150%
28.	Dicyclomine HCl oral Solution	Identification	I.P.- 2010 VOL.2	As per Specification
		Other tests	Page No. 1205-1206	+/-10% of specified limits
		Assay		50% to 150%
29.	Dicyclomine HCl tablets	Identification	I.P.- 2010 VOL.2Page No. 1206	As per Specification
		Related substances		-do-
		Other tests		+/-10% of specified limits
		Assay		50% to 150%
30.	Ethambutol Tablets IP	Identification	I.P.- 2010 VOL.2Page No. 1301	As per Specification
		Other tests		+/-10% of specified limits
		Assay		50% to 150%
		2-Aminobutanol		comparative
		Dissolution		50% to 100%

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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
31.	Ferrous Sulphate Tablets I.P.	Identification Other tests Assay	I.P.- 2010 VOL.2Page No 1346	Tests as per specification +-10%of specified limits 50% to 150%
32.	Ferrous Fumarate Tablets	Identification Disintegration Time Ferric Iron Other tests Assay	I.P.- 2010 VOL.2Page No. 1342	As per Specification 1Minute to 4 hrs Comparative +-10%of specified limits 50% to 150%
33.	Ferrous Gluconate Tablets	Identification Ferric Iron Other tests Assay	I.P.- 2010 VOL.2Page No. 1344	As per Specification As per Specification +-10%of specified limits 50% to 150%
34.	Frusemide Tablets IP (Furosemide)	Identification Other tests Assay Free Amine	I.P.- 2010 VOL.2 Page No. 1393-1394 I.P.- 2010	Tests as per specification +-10%of specified limits 50% to 150% Tests as per specification
35.	Furazolidone Oral Suspension	Identification pH Other tests Assay	I.P. 2010 Page No 1395	As per Specification 1.0 to 14.0 As per Specification 50% to 150%
36.	Furazolidone Tablets	Identification Other tests Assay	I.P.- 2010 VOL.2 Page No. 1395-1396	As per Specification As per Specification 50% to 150%

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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
37.	Isoniazid Tablets IP	Identification Other tests Dissolution Assay Related substances	I.P.- 2010 VOL.2 Page No. 1516-1517	As per Specification As per Specification 50% to 100% 50% to 150% -do-
38.	Isoxsuprine HCl Tablets	Identification Other tests Assay	I.P.- 2010 VOL.2Page No. 1529	As per Specification +-10% of specified limits 50% to 150%
39.	Lignocaine HCL Injection	Identification PH 2,6-Dimethylaniline Other tests Assay	I.P.- 2010 VOL.2Page No. 1587	As per Specification 1.0 to 14.0 Comparative +-10% of specified limits 50% to 150%
40.	Metronidazole Tablets I.P.	Identification Dissolution Assay Related Substances Other tests	I.P.- 2010 VOL.2 Page No.1686-1687	Tests as per specification 50% to 100% 95 – 105% Comparative Tests as per specification +-10% of specified limits
41.	Metronidazole Benzoate Oral Suspension	Identification Other tests Assay	I.P.- 2010 VOL.2Page No. 1684	As per specification +-10% of specified limits 50% to 150%

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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
42.	Nicotinamide Tablets	Identification Related Substances Other tests Assay	I.P.- 2010 VOL.3Page No. 1776	As per specification Comparative +-10%of specified limits 50% to 150%
43.	Oral Rehydration Salts IP	Identification Uniformity of weight Assay Total Sodium Potassium Total Chloride Citrate Dextrose Seal test Other tests	I.P.- 2010 VOL.3 Page No.1820-1821	Tests as per specification Tests as per specification 50% to 150% 50% to 150% 50% to 150% 50% to 150% 50% to 150% 50% to 150% As per specification +-10%of specified limits
44.	Paracetamol Syrup IP	Identification Assay 4-Aminophenol Other tests	I.P.- 2010 VOL.3 Page No.1860-1861	Tests as per specification 50% to 150% Comparative tests as per specification +-10%of specified limits
45.	Paracetamol Tablets I.P.	Identification Assay 4-Aminophenol Relative substance Dissolution Other tests	I.P.- 2010 VOL.3 Page No. 1861-1862	Tests as per specification 50% to 150% Comparative Tests as per specification -do- 50% to 100% +-10%of specified limits

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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
46.	Phenobarbitone Sodium Injection	Identification pH Other tests Assay	I.P.- 2010 VOL.3 Page No. 1892-1893	As per Specification 1.0 to 14.0 +-10% of specified limits 50% to 150%
47.	Phenobarbitone Sodium Tablets	Identification Other tests Assay	I.P.- 2010 VOL.3 Page No. 1893	As per specification +-10% of specified limits 50% to 150%
48.	Povidone Iodine Solution	Identification pH Ethanol (if present) Assay	I.P.- 2010 VOL.3 Page No. 1943-1944	As per specification 1.0 to 14 10% to 100% 50% to 150%
49.	Pyridoxine HCl Tablets	Identification Assay Related Substances Uniformity of content	I.P.- 2010 VOL.3 Page No. 2006-2007	As per specification 50% to 150% Comparative Tests as per specification 50% to 100%
50.	Pyrazinamide Tablets IP	Identification Assay Related Substances Other tests	I.P.- 2010 VOL.3 Page No. 2005	Tests as per specification 50-150% Comparative Tests as per specification +-10% of specified limits
51.	Tinidazole Tablets IP	Identification Assay Other tests	I.P.- 2010 VOL.3 Page No. 2227	Tests as per specification 50% to 150% +-10% of specified limits

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52.	Trimethoprim And Sulphamethoxazole Tablets IP	Identification Assay For Trimethoprim Assay For Sulphamethoxazole Other tests	I.P.- 2010 VOL.3 Page No. 2266-2267	Tests as per Specification 50% to 150% 50% to 150% +-10% of specified limits
53.	Riboflavin Tablet	Identification Uniformity of content Other tests Assay	I.P.- 2010 VOL.3Page No. 2052	As per Specification 50% to 150% +-10% of specified limits 50% to 150%
54.	Rifampicin Capsules	Identification Related Substances Other tests Dissolution Assay	I.P.- 2010 VOL.3 Page No. 2055-2056	As per Specification Comparative +-10% of specified limits 50% to 100% 50% to 150%
55.	Zinc Oxide Cream	Identification Other tests Assay	I.P.- 2010 VOL.3Page No. 2336	As per Specification +-10% of specified limits 50% to 150%
56.	Pharmaceuticals (General test)	General Identification Reactions	I.P.- 2010 Page No.71-75 as per specification	As per specification
		Limit Test for Arsenic	I.P.-2010 Page No. 80 as per specification	Comparative test
		Limit Test for Chlorides	I.P.- 2010 Page No. 80 as per specification	Comparative test
		Limit test for free formaldehyde	I.P.- 2010 Page No. 83 as per specification	Comparative test

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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
	Pharmaceuticals (General test)	Limit test for heavy metals	I.P.- 2010 Page No. 80-81 as per specification	Comparative test
		Limit test for iron	I.P.- 2010 Page No. 81 as per specification	Comparative test
		Limit test for lead	I.P.- 2010 Page No. 81-82 as per specification	Comparative test
		Limit test for sulphates	I.P.- 2010 Page No. 82 as per specification	Comparative
		Determination of nitrogen	I.P.- 2010 Page No. 87-88 as per specification	0.05% to 50%
		Determination of sulphated ash	I.P.- 2010 Page No. 82 as per specification	0.05% to 10%
		Determination of water	I.P.- 2010 Page No. 97-99 as per specification	0.02% to 50%
		Determination of zinc	I.P.- 2010 Page No. 99 as per specification	Comparative
		Determination of acetyl value	I.P.- 2010 Page No. 84 as per specification	>10
		Determination of acid value	I.P.- 2010 Page No. 84 as per specification	>0.5

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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
	Pharmaceuticals (General test)	Determination of ester value	I.P.- 2010 Page No. 85 as per specification	>10
		Determination of hydroxyl value	I.P.- 2010 Page No. 85-86 as per specification	>10
		Determination of iodine value	I.P.- 2010 Page No. 86 as per specification	5 to 100
		Determination of peroxide value	I.P.- 2010 Page No.92 as per specification	1 to 20
		Determination of saponification value	I.P.- 2010 Page No.92 as per specification	50 to 200
		Determination of Unsaponifiable Matter	I.P.- 2010 Page No.93-94 as per specification	0.5 to 10
		Determination of Foreign Organic Matter	I.P.- 2010 Page No. 201 as per specification	0.1% to 5.0%
		Determination of Ethanol-Soluble Extractive	I.P.- 2010 Page No. 201 as per specification	0.1% to 80%
		Determination of Water soluble Extractive	I.P.- 2010 Page No. 201 as per specification	1 to 90
		Determination of Ash	I.P.- 2010 Page No. 82-83 as per specification	0.5% to 10%

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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
	Pharmaceuticals (General test)	Determination of Acid Insoluble Ash	I.P.- 2010 Page No. 82 as per specification	0.5% to 10%
		Determination of Water Soluble Ash	I.P.- 2010 Page No. 83 as per specification	0.5% to 10%
		Infra Red Spectrophotometry	I.P.- 2010 Page No. 111-117 as per specification	Identity Test
		Ultra-Violet and Visible spectrophotometry (E1%)	I.P.- 2010 Page No. 117-118 as per specification	Identity test
		Test for Clarity of Solution	I.P.- 2010 Page No. 107 as per specification	Comparative Test
		Test for Colour of Solution	I.P.- 2010 Page No. 107 as per specification	Comparative Test
		Disintegration Test for Tablets & Capsules	I.P.- 2010 Page No. 187-188 as per specification	Min/hr/1 Sec. Detection limit
		Determination of Boiling or Distilling Range	I.P.- 2010 Page No. 119 as per specification	Min. 50°C
		Determination of Congealing Range or Temperature	I.P.- 2010 Page No. 121-122 as per specification	Min. 20°C
		Determination of Ethanol	I.P.- 2010 Page No. 99-101 as per specification	0.5% to 100%

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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
	Pharmaceuticals (General test)	Determination of Freezing Point	I.P.- 2010 Page No. 122 as per specification	Min. 0°C
		Determination of Melting Range or Temperature	I.P.- 2010 Page No. 140-143 as per specification	Ambient to 330°C
		Determination of Optical Rotation and Specific Optical Rotation	I.P.- 2010 Page No. 143-144 as per specification	± 0°C to ± 360°
		Determination of pH value	I.P.- 2010 Page No. 146 as per specification	1 to 14
		Determination of Refractive Index	I.P.- 2010 Page No. 171 as per specification	1.3 to 1.7
II. COSMETICS & ESSENTIAL OILS				
1.	Toothpaste (Fluoridated)	i) Fineness:	IS 6356 : 2001 B	0.1 to 100 %
		a) Particles retained on 150 micron IS Sieve	-	
		b) Particles retained on 75 micron IS Sieve	IS 6356 : 2001 C	0.1 to 100 %
		ii) pH of aqueous suspension	IS 6356 : 2001 D	1 to 14
		iii) Heavy metals (as lead)	IS 6356 : 2001 E	Comparative
		iv) Arsenic (as AS ₂ O ₃)	IS 6356 : 2001 F	> 0.01 ppm
		v) Foaming power		0.1 to 150 ml

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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
2.	Toothpaste (Non-fluoridated)	i) Fineness: a) Particles retained on 150 micron IS Sieve b) Particles retained on 75 micron IS Sieve ii) pH of aqueous suspension iii) Heavy metals (as lead) iv) Arsenic (as As_2O_3) v) Foaming power	IS 6356 : 2001 B - IS 6356 : 2001 C IS 6356 : 2001 D IS 6356 : 2001 E IS 6356 : 2001 F	0.1 to 100 % 0.1 to 100 % 1 to 14 Comparative > 0.01 ppm 0.1 to 150 ml
3.	Skin Powder (Face Powder)	i) Matter insoluble in boiling water. ii) Fineness: a) Residue on 75-micron IS Sieve. b) Residue on 150-micron IS Sieve. iii) Moisture and volatile matter. iv) pH of aqueous suspension v) Heavy metals (as Pb). vi) Arsenic (as As_2O_3)	IS 3959 : 2004 B IS 3959 : 2004 C IS 3959 : 2004 D IS 3959 : 2004 E IS 3959 : 2004 F IS 3959 : 2004 G	0.1 to 100 % Max. 100% Max. 100% 0.1 to 100% 1 to 14 >0.01 ppm > 0.01 ppm

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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
4.	Skin Powder (Body Powder)	i) Matter insoluble in boiling water.	IS 3959 : 2004 B	0.1 to 100 %
		ii) Fineness:	IS 3959 : 2004 C	Max. 100%
		a) Residue on 75-micron IS Sieve.		
		b) Residue on 150-micron IS Sieve.		Max. 100%
		iii) Moisture and volatile matter.	IS 3959 : 2004 D	0.1 to 100%
		iv) pH of aqueous suspension	IS 3959 : 2004 E	1 to 14
5.	Shampoo, Surfactant Based	v) Heavy metals (as Pb).	IS 3959 : 2004 F	>0.01 ppm
		vi) Arsenic (as As ₂ O ₃)	IS 3959 : 2004 G	> 0.01 ppm
6.	Skin Powder (For Infants)	i) Non-volatile alcohol soluble matter.	IS 7884 : 2004 B	0.1 to 50%
		ii) pH	IS 7884 : 2004 C	1 to 14
		iii) Foam height	IS 7884 : 2004 D	50 to 250
		i) Matter insoluble in boiling water.	IS 5339 : 2004 B	0.1 to 100%
		ii) Fineness:		
		a) Residue on 75-micron IS Sieve.	IS 3959 : 2004 C	Max. 100%
		b) Residue on 150-micron IS Sieve.		Max. 100%
		iii) Moisture and volatile matter.	IS 3959 : 2004 D	0.1 to 100%
		iv) pH of aqueous suspension	IS 3959 : 2004 E	1 to 14
		v) Heavy metals (as Pb).	IS 3959 : 2004 F	comparative
		vi) Arsenic (as As ₂ O ₃)	IS 3959 : 2004 G	> 0.01 ppm

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7.	Powder Hair Dyes	i) pH	IS 10350 : 1999 A	1 to 14
		ii) Total active matter (dye content)	IS 10350 : 1999 B	0.1 to 50%
8.	Shaving Creams	i) Total fatty substances	IS 9740 : 1981 B-2	0.1 to 100%
		ii) Water content	IS 2362-1973 B-3	0.1 to 80%
		iii) Lathering (foaming)	IS 9740 – 1981 B-4	0.1 to 400
		iv) Free caustic alkali	IS 323 – 1959 B-5	0.1 to 20%
9.	Shaving Soap	i) Moisture and volatile matter	IS 286 4	0.1 to 100%
		ii) Matter insoluble in alcohol	IS 286 5	0.1 to 100%
		iii) Free caustic alkali (as KOH)	IS 286 6	0.1 to 20%
		iv) Chlorides (as KCL)	IS 286 10	Max. 1.5%
		v) Unsaponified fatty matter	IS 286 13	0.1 to 50%
		vi) Glycerol	IS 286 22	0.1 to 100%

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10.	Henna Powder	i) Moisture and volatile matter	IS 7159 – 1984 - 4	0.1 to 100%
		ii) Cold water extract	IS 7159 – 1984 - 5	0.1 to 50%
		iii) Crude fibre	IS 7159 – 1984 - 6	0.1 to 50%
		iv) Mineral Matter	IS 7159 – 1984 - 7	Max. 50%
		v) Acid insoluble ash	IS 7159 – 1984 - 8	0.1 to 20%
		vi) Extraneous sand	IS 7159 – 1984 - 9	0.1 to 50%
		vii) Presence of extraneous dyes	IS 7159 – 1984 - 10	Qualitative test
		viii) Lawsone pigment	IS 7159 – 1984 - 11	0.1 to 10%
11.	Skin Creams	i) pH	IS 6608 : 2004 B	1 to 14
		ii) Total Fatty substance content	IS 6608 : 2004 C	0 to 100%
		iii) Total residue	IS 6608 : 2004 D	Max. 100%
		iv) Heavy metals (as Pb)	IS 6608 : 2004 E	Comparative
		v) Arsenic (as As ₂ O ₃)	IS 6608 : 2004 F	> 0.01 ppm

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12.	Tooth Powder	i) Fineness:		
		(a) Particles retained on 150 micron IS Sieve	IS 5383 - 1978 A-2	0.1 to 100 % 0.1 to 100%
		(b) Particles retained on 75 micron IS Sieve		
		ii) Moisture and volatile matter	IS 5383 – 1978A-3	0.1 to 100%
		iii) pH	IS 5383 – 1978A-4	1 to 14
		iv) Foaming power	IS 5383 – 1978A-5	0.1 to 150 ml
		v) Lead (as Pb)	IS 5383 – 1978A-6	Comparative
		vi) Arsenic (as As ₂ O ₃)	IS 5383 – 1978A-7	> 0.01 ppm
		vii) Hard and sharp-edged abrasive particles	IS 5383 – 1978A-8	Max. 2%

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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
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III. SOAP, DETERGENTS AND TOILETRIES

1.	Toilet Soap	i) Total fatty matter.	IS 286-15	0.1 to 100%
		ii) Free caustic alkali, as sodium hydroxide (NaOH)	IS 286-62	0.1 to 20%
		iii) Matter insoluble in alcohol	IS 286-5	Max. 100%
		iv) Chlorides (as sodium chloride)	IS 286-10	Max. 1.50%
2.	Toilet Soap (Liquid)	i) Total fatty matter.	IS 286-15	0.1 to 100%
		ii) Matter insoluble in alcohol	IS 286-5	Max. 100%
		iii) Free caustic alkali, (as K ₂ O)	IS 286-6.2	0.1 to 20%
3.	Laundry Soap Powder	i) Total fatty matter	IS 286-1966 15	0.1 to 100%
		ii) Unsaponified fatty matter	IS 286-1966 13	0.1 to 50%
		iii) Free caustic alkali	IS 286-1966 – 6.2	0.1 to 20%
		iv) Matter insoluble in alcohol	IS 286-1966 5	Max. 100%
		v) Glycerol	IS 286-1966 22	0.1 to 100%

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4.	Soft Soap	i) Total fatty matter.	IS 286-1966 15	0.1 to 100%
		ii) Unsaponified and unsaponifiable matter	IS 286-1966 12	0.1 to 50%
		iii) Total free alkali (as K ₂ O)	IS 7532 – 1974 A	0.1 to 50%
		iv) Free caustic alkali (as K ₂ O)	IS 286-1966 – 6	0.1 to 20%
5.	Transparent Toilet Soap	i) Total fatty matter.	IS 286-1978 15	0 to 100%
		ii) Unsaponified fatty matter	IS 286-1978 13	0 to 50%
		iii) Free caustic alkali (as NaOH)	IS 286-1978 6.2	0 to 20%
6.	Antibacterial Toilet Soap	i) Total fatty matter.	IS 286 15	0.1 to 100%
		ii) Free caustic alkali, as sodium hydroxide (NaOH)	IS 286 6.2	0.1 to 20%
		iii) Matter insoluble in alcohol	IS 286 2.5	Max. 100%

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IV. POLLUTION AND EFFLUENTS

1.	Effluents & Waste Water	Colour	APHA 2012, 2120B, 2-6	5-70 Hazen units
		Conductivity	APHA-2012, 22 nd Edition 2-54, 2510-B	2 - 10,000 µmhos/cm
		Total solids	APHA-2012, 22 nd Edition 2-64, 2540-B	3-10000 mg/l
		Total suspended solid	APHA-2012, 22 nd Edition 2-66, 2540-D	3-10000 mg/l
		Residual chlorine	APHA-2012, 22 nd Edition 4-60, 4500 Cl-B	0.1-100 mg /l
		Fluoride	APHA-2012, 22 nd Edition 4-87, 4500 F-D	0.1-25 mg /l
		Dissolved Oxygen	APHA-2012, 22 nd Edition 4-139, 4500 O-C	0.1-10 mg/L
		pH	APHA-2012, 22 nd Edition 4-92, 4500 H+-B	1-14 unit
		Oil & Grease	APHA-2012, 22 nd Edition 5-40, 5520 B	5-100 mg/L
		Biochemical Oxygen Demand	APHA-2012, 22 nd Edition 5-5, 5210-B	2-1000 mg/l

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	Effluents & Waste Water	Chemical Oxygen Demand	APHA-2012, 22 nd Edition 5-17, 5220-B	2-1000 mg/l
		Total Dissolved solids	APHA-2012, 22 nd Edition 2-65, 2540-C	5-10000 mg/l
		Total Kjeldahl Nitrogen	APHA-2012, 22 nd Edition 4-132, 4500-B	0.1-20 mg/l
		Ammonical Nitrogen	APHA-2012, 22 nd Edition 4-112, 4500 -C	0.1-10 mg/l
		Phosphate as P	APHA-2012, 22 nd Edition 4-154, 4500 – P-D	0.005-2 mg/l
		Chloride as Cl	APHA-2012, 22 nd Edition 4-72, 4500 Cl ⁻ B	1.01-100 mg/l
		Cyanide as CN	APHA-2012, 22 nd Edition 4-39, 4-44, 4500 – CN ⁻ C&D	0.02-10 mg/l
		Sulphide as H ₂ S	APHA-2012, 22 nd Edition 4-178, 4500 – S ⁻ F	0.01-10 mg/l
		Hexavalent Chromium as Cr ⁺⁶	APHA-2012, 22 nd Edition, 3-69, 3500 Cr – B as Cr+6	0.1-5 mg/l
		Sulphate as SO ₄	APHA-2012, 22 nd Edition 4-190 4500 – E	5-1000 mg/l

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	Effluents & Waste Water	Nitrate as NO ₃	APHA-2012, 22 nd Edition 4-122, 4500-B	1-50 mg/l
		Arsenic as As	APHA-2012, 22 nd Edition 3-61, 3113-B	0.01-10 mg/l
		Cadmium as Cd	APHA-2012, 22 nd Edition 3-64, 3113-B	0.01-5 mg/l
		Copper as Cu	APHA-2012, 22 nd Edition 3-72, 3113-B	0.01-10 mg/l
		Sodium as Na	APHA-2012, 22 nd Edition 3-98, 3113-B	5-1000 mg/l
		Potassium as K	APHA-2012, 22 nd Edition 3-88, 3113-B	5-1000 mg/l
		Lead as Pb	APHA-2012, 22 nd Edition 3-79, 3113-B	0.01-100 mg/l
		Mercury as Hg	APHA-2012, 22 nd Edition 3-86, 3113-B	0.01-50mg/l
		Zinc as Zn	APHA-2012, 22 nd Edition 3-106, 3113-B	0.01-100 mg/l
		Iron as Fe	APHA-2012, 22 nd Edition 3-76, 3113-B	0.01-100 mg/l

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	Effluents & Waste Water	Aluminium as Al	APHA-2012, 22 nd Edition 3-57, 3113-B	0.01-100 mg/l
		Selenium as Se	APHA-2012, 22 nd Edition 3-91, 3113-B	0.01-10 mg/l
		Boron as B	APHA 2012, 22 nd Edition, 4-23, 3113-B	0.3-10 mg/l
		Manganese as Mn	APHA-2012, 22 nd Edition 3-84, 3113-B	0.01-10 mg/l
		Nickel as Ni	APHA 2012, 22 nd Edition, 3-87, 3113-B	0.01-10 mg/l
		Chromium as Cr	APHA 2012, 22 nd Edition, 3-67, 3113-B	0.005-10 mg/l (LOD)

V. AIR, GASES & ATMOSPHERE

1. Stack Emission	Particulate Matter (PM)	IS 11255 –Part-1	10-1000 mg/Nm ³
	Sulphur Dioxide (SO ₂)	IS 11255 –Part II - 1985	2-100 mg/ Nm ³
	Carbon Monoxide(CO)	IS 5182 –Part X - 1999	1-12%
	Carbon Dioxide	IS 13270:1992	1-12%
	Nitrogen Oxide(No _x)	IS 11255- Part-7	2-100 mg/ Nm ³

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2.	Ambient Air	Suspended Particulate Matter (SPM) (SPM)	IS 5182 Part IV 1999/SOP based on (CPCB Guideline)/SAL/SOP/ENV/007	10-1000µg/ m ³
		RSPM	IS 5182 Part 23 1999 (RDS) SOP based on (CPCB Guideline)/SAL/SOP/ENV/008	10-400µg/ m ³
		Sulphur Dioxide (SO ₂)	IS 5182 Part II 2001 SOP based on (CPCB Guideline)/SAL/SOP/ENV/009	4-80µg/ m ³
		Nitrogen Oxide (No _x)	IS 5182 Part VI 2006 SOP based on (CPCB Guideline)/SAL/SOP/ENV/010	4-80µg/ m ³

VI. WATER

1. Packaged Drinking Water (Other Than Packaged Natural Mineral Water) IS 14543	Colour, true colour unit	IS 3025(Part4)	1-5 colour units
	Odour	IS 3025(Part5)	Agreeable
	Taste	IS 3035(Part8)	Agreeable NTU
	Turbidity	IS 3025(Part10)	0 – 40 mg/l
	Total Dissolved Solids	IS 3025(Part16)	2 & above
	pH value	IS 3025(Part11)	1 to 14
	Barium (as Ba)	Annex-F,IS 13428/IS 15302	(0.5 to 50)mg/L
	Copper (as Cu)	IS 3025 (Part-42)/APHA3113, 3030	(0.1 to 1)mg/L
	Iron(as Fe)	IS 3025(Part53)/IS 15303	(0.01 to 1) mg/l

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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
	Packaged Drinking Water (Other Than Packaged Natural Mineral Water) IS 14543	Manganese(as Mn)	IS 3025(P-59)/ APHA 3113, 3030/ TP No. SAL/CHEM/068	(0.01 to 1) mg/l
		Nitrate(as NO ₃)	IS 3025(Pt34)	(0.01 to 1) mg/l
		Nitrite(as NO ₂)	IS 3025(Pt34)	(0.01 to 1) mg/l
		Fluoride (as F)	IS 3025(Pt.60)	(0.01 to 20) mg/l
		Zinc (as Zn)	IS 3025(Pt49)	(0.01 to 100) mg/l
		Silver (as Ag)	Annex J IS 13428/APHA 3113, 3030	(0.003 to 0.3)mg/l
		Aluminium (as Al)	IS 3025(Pt55)/ APHA 3113, 3030	(0.03to 1.0)mg/l
		Chloride (as Cl)	IS 3025(Pt32)	(5 to 500) mg/l
		Selenium (as Se)	IS 3025(Pt56) IS 15303/APHA 3113, 3030	(0.004 to 0.4) mg/l
		Sulphate (as SO ₄)	IS 3025(Pt24)	(5 to 500)mg/l
		Alkalinity (as CaCO ₃)	IS 3025(Pt23)	(5 to 500)mg/l
		Calcium (as Ca)	IS 3025(Pt40)	(1.0 to 100)mg/l
		Magnesium (as Mg)	IS 3025(Pt46)	(1.0 to 100) mg/l

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	Packaged Drinking Water (Other Than Packaged Natural Mineral Water) IS 14543	Sodium (as Na)	IS 3025(P-45)	(1 to 100)mg/l
		Residual free chlorine	IS 3025(P-26)	(0.1 to 10)mg/l
		Phenolic compounds (as C ₆ H ₅ OH)	IS 3025(P-43)	(0.001 to 0.1) mg/l
		Mineral oil	IS 3025(P39)	(0.01to 1) mg/l
		Anionic surface active agents (as MBAS)	Annex K IS 13428	(0.01 to 0.1)mg/l
		Sulphide (as H ₂ S)	IS 3025(P-29)	(0.02 to 2.0)mg/l
		Antimony (as Sb)	IS 15305/APHA 3113, 3030	(0.003to 0.3) mg/l
		Borate (as B)	Annex H IS 13428	(2 to 200)mg/l
		Mercury (as Hg)	IS 3025 (P-48)	(0.0005 to 0.05)mg/l
		Cadmium (as Cd)	IS 3025(P-41)/ APHA 3113, 3030	(0.002 to 0.2)mg/l
		Arsenic (as As)	IS 3025(P-37)	(0.0051 to 1.0)mg/l
		Cyanide (as CN)	IS 3025(P-27)	(0.02 to 2.0)mg/l
		Lead (as Pb)	IS 3025(P-47)/ APHA 3113, 3030	(0.002 to 2.0 mg/l
		Chromium (as Cr)	Annex J IS 13428 (P-52)/ APHA 3113, 3030	(0.005 to 0.5)mg/l

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	Packaged Drinking Water (Other Than Packaged Natural Mineral Water) IS 14543	Nickel (as Ni)	Annex L IS 13428/ APHA 3113, 3030	(0.01to 1.0) mg/l
		Polychlorinated biphenyle (PCB)	Annex M IS 13428/ (P-54)	(0.0001 to 0.01) mg/l
		Polynuclear aromatic hydrocarbons	APHA 6440 AOAC 990.06 19 th Edition 2012	(0.0002 to 0.01) mg/l
		DDT(o,p & p,p-isomers of DDT, DDE & DDD	IS 14543 AOAC 990.06 19 th Edition 2012	(0.00001to 0.001) mg/l
		Y-HCH (Lindane)	IS 14543 AOAC 990.06 19 th Edition 2012	(0.00002 to 0.002)mg/l
		α , β and δ -HCH	IS 14543 AOAC 990.06 19 th Edition 2012	(0.00002 to 0.002)mg/l
		Endosulfan (α , β and Sulphate)	IS 14543 AOAC 990.06 19 th Edition 2012	(0.00002 to 0.002) mg/l
		Monocrotophos	IS 14543 USEPA 8141A	(0.0001 to 0.01)mg/l
		Ethion	IS 14543 USEPA 1657A	(0.00005 to 0.005) mg/l
		Chlorpyriphos	IS 14543 USEPA 525.2,8141A	(0.00005 to 0.005)mg/l
		Phorate (including phorate sulfoxide & sulphone)	IS 14543 USEPA 8141A	(0.00005 to 0.005)mg/l
		2, 4-D	IS 14543 USEPA 515.1	(0.00005 to 0.005) mg/l

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	Packaged Drinking Water (Other Than Packaged Natural Mineral Water) IS 14543	Butachlor	IS 14543 USEPA 525.2,8141A	(0.00005 to 0.005) mg/l
		Iso proton	IS 14543 USEPA 532	(0.00005 to 0.005)mg/l
		Alachor	IS 14543 USEPA 525.2,507	(0.00005 to 0.005) mg/l
		Atrazine	IS 14543 USEPA 525.2,8141A	(0.00005 to 0.005)mg/l
		Methyl parathion Including methyl paraoxon	IS 14543 USEPA 8141 A	(0.00005 to 0.005) mg/l
		Malathion including Malaoxon	IS 14543 USEPA 8141 A	(0.00005 to 0.005) mg/l
		Aldrin & Dieldrin	IS 14543 USEPA AOAC 990.06 19 th Edition 2012	(0.00003 to 0.003) mg/l

VII. FOOD & AGRICULTURAL PRODUCTS

1. Spice & Condiments			
a. Chilies (whole and ground powdered)		IS 2322-2010	
	Moisture , Percent by mass	IS 1797-1985 (Clause 4)	0.01 to 10% ≥ 10%
	Ash, Percent by mass	IS 1797-1985 (Clause 6)	0.01 to 10% ≥ 10%
	Acid Insoluble Ash, Percent by mass	IS 1797-1985 (Clause 8)	0.01 to 10 % ≥ 10%
	Non – Volatile Ether Extract , Percent by mass	IS 1797-1985 (Clause 14)	0.1 to 20% ≥20%

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b.	Turmeric (Whole and Ground) IS 3576-2010 (Amd.-1)	Moisture , Percent by mass	IS 1797-1985 (Clause-9)	3 to 15% ≥15%
		Ash, Percent by mass	IS 1797-1985 (Clause-6)	0.01 to 10% ≥10%
		Acid Insoluble Ash, Percent by mass	IS 1797-1985 (Clause-8)	0.01 to 10% ≥10%
		Non – Volatil Ether Extract ,Percent by mass	IS 1797-1985 (Clause-8)	5 to 10% ≥10%
		Presence of chromates	IS 3576:2010 (Annex. A)	Presence/ Absence
c.	Black Papper (Whole & ground) IS 1798-1982	Ash, Percent by mass	IS1797-1985 (Clause 9)	0.01 to 10% ≥ 10%
		Acid Insoluble Ash, Percent by mass	IS1797-1985 (Clause 6)	0.01 to 10 % ≥ 10%
		Non – Volatile Ether Extract , by mass	IS1797-1985 (Clause 8)	0.1 to 20% ≥20%
d.	Garam Masala IS 13545-1992	Volatile Oil ,ml/100gm	IS 1797 (Clause 15)	0.01 to 10% ≥ 10%
		Ash, Percent by mass	IS 1797 (Clause 6)	0.01 to 10% ≥ 10%

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		Acid Insoluble Ash, Percent by mass	IS 1797 (Clause 8)	0.01 to 10 % ≥ 10%
		Non – Volatile Ether Extract , Percent by mass	IS 1797 (Clause 8)	0.01 to 20% ≥20%
2.	Milk & Dairy product			
a.	Fresh Milk & Pasteurised Milk, Toned Milk	Total Fat , Percent by mass	IS 1479 (I & II) Cl 4&5	0.01 to 10 % ≥ 10%
	IS 1479 (I & II)-1979, RA 2009	Total Solids, Percent by mass	IS 1479(II)-1979	1 to 40% ≥ 40%
	IS 13688 : 1999	Protein, Percent by mass	IS 1479(II)-1979	0.1 to 20 % ≥ 20%
		Sugars, Percent by mass	DGHS Lab mannul -1 (Milk & Milk products)	0.1 to 20 % ≥ 20%
b.	Milk Powder , Whole/Skimmed	Moisture , Percent by mass	IS 11623:1992, RA 2009	0.1 to 20 % ≥ 20%
	IS 1165 :2002	Total Solids, Percent by mass	IS 1165:1992, RA 2009	0.01 to 40% ≥ 40%
		Acidity	IS 1165:1992, RA 2009	0.01 to 40% ≥ 40%

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		Fat (A) Whole Milk Powder, Percent by mass	IS 11721-1986, RA 2009	0.01 to 50% ≥50%
		(B)Skimmed Milk Powder, Percent by Mass		
c.	Chhana Panner IS 5162-1980	Moisture , Percent by mass	IS 2785-1979 (App. A)	10 to 40% ≥40%
		Fat , Percent by mass	IS 2785-1979 (App. B)	40 to 50% ≥50%
		Protein, Percent by mass	IS 7219 -1973 (App. A)	1 to 20% ≥20%
		Ash, Percent by mass	IS 5162 –1980 (App. A)	0.01 to 10% ≥10%
d.	Curd/Yogurt Vegetable IS 8678-1977, RA 2005	Total Solids, Percent by mass	IS 4079-1967 (App. A)	1 to 20% ≥20%
		Fat, Percent by mass	IS 11721-1986	1 to 40% ≥40%
		Protein, Percent by mass	IS 7219-1973 (App. A)	2 to 20% ≥ 20%
		Acidity as Lactic Acid, Percent by mass	IS 1479 (P-1)	0.01 to 10% ≥ 10%

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3.	Tea IS 3633-2003	Moisture, Percent by mass	IS 13853-1994 (Clause 3.9)	0.1 to 20% ≥ 20%
		Total Ash, Percent by mass	IS 13854-1999 (Clause 3.9)	0.01 to 10% ≥ 10%
		Acid Insoluble Ash, Percent by mass	IS 13857-1993 (Clause 4.9)	0.01 to 10% ≥ 10%
		Water Extract, Percent by mass	IS 13862-1999 (Clause 4.1)	10 to 50% ≥ 50%
4.	Chocolate, IS 1163 : 1992	Acid Insoluble ash, Percent by mass	IS 1163-1992, RA 2009	0.01 to 10% ≥10%
		Total Fat, Percent by mass	IS 1163-1992, RA 2009	0.1 to 60 % ≥60%
5.	Namkeens IS 15271-2003	Moisture, Percent by mass	IS 15271-2003 (App. B)	0.1 to 10% ≥10%
		Acid Insoluble Ash, Percent by mass	IS 15271-2003 (App. C)	0.01 to 10% ≥10%
		Oil/ Fat, Percent by mass	IS 15271-2003 (App. D)	0.1 to 50% ≥50%
		Acidity of the extracted fat, Percent by mass	IS 15271-2003 (App-E)	0.01 to 20% ≥ 20%

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6.	Starch & Starchy Product			
a.	Corn Flakes	Moisture, Percent by mass	IS 1158-1973 (Amd. 3) (App. A)	0.1 to 10% ≥10%
		Total Ash, Percent by mass	IS 1158-1973 (Amd. 3) (App. B)	0.01 to 10% ≥10%
		Acid Insoluble Ash, Percent by mass	IS 1158-1973 (Amd. 3) (App. C)	0.01 to 20% ≥ 20%
		Alcoholic Acidity as H ₂ SO ₄ , Percent by mass	IS 1158-1973 (Amd. 3) (App. E)	0.01 to 20 ≥ 20
b.	Custard Powder IS 1007 – 1984 (Amd.)	Moisture, Percent by mass	IS 4706-1978 (P-II)	0.1 to 10% ≥10%
		Total Ash , Percent by mass	IS 4706 -1978 (P-II)(Clause 6)	0.01 to 10% ≥10%
		Acid Insoluble Ash, Percent by mass	IS 4706-1978 (P-II)(Clause 8)	0.01 to 20% ≥20%
		Gelling Power	IS 1007-1984 (App. A)	Qualitative

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c.	Macaroni / Vermicelli	Moisture, Percent by mass	IS 1485-1993 (Annex C)	0.1 to 20% ≥ 20%
		Total Ash, Percent by mass	IS 1485-1993 (Annex D)	0.01 to 10% ≥ 10%
		Free Acidity, Percent by mass	IS 1485 (Annex. H)	0.01 to 10% ≥10%
		Acid Insoluble Ash, Percent by mass	IS 1485-1993 (Annex E)	0.01 to 20% ≥20%
		Protein, Percent by mass	IS 1485-1993, 7219 (Annex F)	1 to 20% ≥20%
7.	Corn Flour IS 1005-1992	Moisture, Percent by mass	IS 4706-1978 (P-2), RA 2005	0.1 to 20% ≥20%
		Total Ash, Percent by mass	IS 4706-1978 (P-II) RA 2005 (Clause6)	0.01 to 10% ≥10%
		Acid Insoluble Ash, Percent by mass	IS 4706-1978 (P-II), RA 2005 (Clause8)	0.01 to 20% ≥20%
		Protein, Percent by mass	IS 4706-1978 (P-II) RA 2005 (Clause10)	0.01 to 10% ≥10%
		Alcoholic Acidity as H ₂ SO ₄ , Percent by mass	IS 4706-1978 (P-II) RA 2005 (Clause15)	0.01 to 20% ≥20%

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8.	Chewing Gum / Bubble Gum	Moisture, Percent by mass	IS 6287-1985 (Clause 5)	0.1 to 20% ≥20%
		Sulphated Ash, Percent by mass	IS 6287-1985 (Clause 6)	0.01 to 10% ≥10%
		Acid Insoluble Ash, Percent by mass	IS 6287-1985 (Clause 7)	0.01 to 20% ≥20%
9.	Food Grain (Rice, All Pulses (Urad, Wheat, Barley, Oat Sorghum))	Moisture, Percent by mass	IS 4333(2)-2002,RA2012	0.1 to 10% ≥ 10%
		Damage grain , Percent by mass	IS 4333(2)-2002,RA2012	0.1 to 10% ≥10%
		Other grain , Percent by mass	IS 4333(2)-2002,RA2012	0.1 to 20% ≥20%
		Foreign Matter, Percent by mass	IS 4333(2)-2002,RA2012	0.1 to 10% ≥10%
		Insect & Rodent contaminated Grain, Percent by mass	IS 4333(2)-2002,RA2012	0.1 to 10% ≥10%
		Weight of 1000 grain, Percent by mass	IS 4333(2)-2002,RA2012	0.01 to 10% ≥10%

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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
10.	Bakery and Confectionery Products			
a.	Biscuits	Moisture, Percent by mass	IS 1011-2002, RA 2009 (Appd. B)	0.01 to 10% ≥10%
		Acid Insoluble ash, Percent by mass	IS 1011-2002, RA 2009, (Appd.C)	0.01 to 10% ≥10%
		Acidity of the extracted Fat , Percent by mass	IS 1011-2002, RA 2009, (Appd. D)	0.01 to 10% ≥10%
11.	Cereal Products			
a.	Wheat Atta IS 1155-1968, RA2005	Loss on drying, Percent by mass	IS 1155-1968 (Amd.3), RA 2005, Appd. A	0.1 to 10% ≥ 10%
		Total Ash, Percent by mass	IS 1155-1968 (Amd.3), RA 2005, (Appd. B)	0.01 to 10% ≥10%
		Acid Insoluble Ash, Percent by mass	IS 1155-1968 (Amd.3), RA 2005, (Appd. C)	0.01 to 10% ≥10%
		Alcoholic Acidity as H ₂ SO ₄ , Percent by mass	IS 1155-1968 (Amd.3), RA 2005, (Appd. F)	0.01 to 10% ≥10%
		Gluten, Percent by mass	IS 1155-1968 (Amd.3), RA 2005, (Appd. D)	0.1 to 15% ≥15%
		Granularity	IS 1155-1968 (Amd.3), RA 2005, (Appd. G)	Qualitative

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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
b.	Maida	Loss on drying, Percent by mass	IS 1009-1979, (Amd.2), RA 2000, (Appd. A)	0.1 to 30% ≥30%
		Total Ash, Percent by mass	IS 1009-1979 (Amd.2), RA 2000, (Appd. B)	0.01to 30% ≥ 30%
		Acid Insoluble Ash, Percent by mass	IS 1009-1979 (Amd.2), RA 2000, (Appd. C)	0.01 to 10% ≥10%
		Alcoholic Acidity as H ₂ SO ₄ , Percent by mass	IS 1009-1979 (Amd.2), RA 2000, (Appd. F)	0.01 to 10% ≥10%
		Gluten, Percent by mass	IS 1009-1979 (Amd.2), RA 2000, (Appd. D)	1 to 40% ≥40%
		Granularity	IS 1009-1979 (Amd.2), RA 2000, (Appd. G)	Qualitative
c.	Semolina (Suji)	Total Ash, Percent by mass	IS 1010-1968 (Amd.3), RA 2010, (Appd. C)	0.01 to 10% ≥10%
		Acid Insoluble Ash, Percent by mass	IS 1010-1968 (Amd.3), RA 2010, (Appd. D)	0.01 to 5% ≥5%
		Alcoholic Acidity as H ₂ SO ₄ , Percent by mass	IS 1010-1968(Amd.3), RA 2010, (Appd. F)	0.02 to 5% ≥ 5%
		Gluten, Percent by mass	IS 1010-1968(Amd.3), RA 2010, (Appd. E)	1.0 to 30.0% ≥30%

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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
	Semolina (Suji)	Loss on drying, Percent by mass	IS 1010-1968, RA 2010	0.1 to 30% ≥30%
		Sieve Test		
		Material passing through 1.18mm sieve	Cl. 3.2 IS 1010 - 1969	95 to 100%
		IS Sieve Material Retained on 710 micron IS Sieve	Cl. 3.2 IS 1010 - 1969	90 to 100%
		Sieve Material Retained on 250 micron Sieve	Cl. 3.2 IS 1010 - 1969	90 to 100%
12.	Iodized Salt, Vacuum Evaporated Iodized, & Refined Salt	Moisture Content, Percent by mass	IS 7224-2006	0.1 to 40% ≥40%
		Matter Insoluble in Water, Percent by mass	IS 7224-2006	0.1 to 10 % ≥10%
		Chloride content, Percent by mass	IS 7224-2006	1 to 99 % ≥99%
		Matter soluble in Water, Percent by mass	IS 7224-2006	0.1 to 10 % ≥10%
		Calcium, Percent by mass	IS 7224-2006	0.1 to 10% ≥10%
		Magnesium, Percent by mass	IS 7224-2006	0.1 to 10 % ≥10%

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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
	Iodized Salt, Vacuum Evaporated Iodized, & Refined Salt	Sulphate	IS 7224-2006	0.1 to 10.5 ≥ 10%
		Iodine	IS 7224-2006	1 to 50 ppm ≥ 50 ppm
13.	Honey	Free from foreign matter	IS 4941-1994	Visually
		Colour	IS 4941-1994	Visually
		Specific Gravity	IS 4941-1994	0.09 to 1.5
		Moisture, Percent by mass	IS 4941-1994	1 to 30 % ≥ 30%
		Total Reducing Sugar, Percent by mass	IS 4941-1994	1 to 90 % ≥ 90%
		Sucrose, Percent by mass	IS 4941-1994	0.1 to 10 % ≥ 10%
		Ash, Percent by mass	IS 4941-1994	0.01 to 5% ≥ 5%
		Acidity, Percent by mass	IS 4941-1994	0.01 to 5%

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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**.