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r. No. Description Description Solubility Identification 1 Identification 2 Identification 2 Identification 3 Identification 4 Appearance of sole Conductivity pH OChloride Sulfate Nickel (Ni) Arsenic Glucose Sugars GLoss on drying Heavy metals Water Sulfated ash Residue on ignition Reducing sugars Related substance	Product Name	D(-)-Sorbitol (Ph. Eur., USP-NF) pure, pharma grade	PanReac 🌮 AppliChem	Issue Date	March-23
CAS NO. Manufacturer I Description Description Description Identification 1 Identification 1 Identification 2 Identification 3 Identification 3 Identification 4 Appearance of soli Conductivity pH OChloride 1 Sulfate 2 Nickel (Ni) 3 Arsenic 4 Glucose 5 Sugars 6 Loss on drying 7 Heavy metals 8 Water 9 sulfated ash 0 Residue on ignition 1 Reducing sugars 2 Related substance	Product Code	A2222		Prepared by	Sr. Tech Lead
r. No. Description Description Solubility Identification 1 Identification 2 Identification 2 Identification 3 Identification 4 Appearance of sole Conductivity pH OChloride Sulfate Nickel (Ni) Arsenic Glucose Sugars GLoss on drying Heavy metals Water Sulfated ash Residue on ignition Reducing sugars Related substance		50-70-4	AppliChem	Reviewed by	Manager Technical
r. No. Description Description Solubility Identification 1 Identification 2 Identification 2 Identification 3 Identification 4 Appearance of sole Conductivity pH OChloride Sulfate Nickel (Ni) Arsenic Glucose Sugars GLoss on drying Heavy metals Water Sulfated ash Residue on ignition Reducing sugars Related substance	Aanufacturer Name	PanReac AppliChem	ITW Reagents	Version no.	CLYZO/PAN/A2222/01
Description Description Solubility Identification 1 Identification 2 Identification 3 Identification 4 Appearance of solucity pH O Chloride 1 Sulfate Nickel (Ni) Arsenic Glucose Sugars 6 Loss on drying Heavy metals Water 9 sulfated ash 0 Residue on ignition 1 Reducing sugars 2 Related substance					
Description Description Solubility Identification 1 Identification 2 Identification 3 Identification 4 Appearance of solucion Conductivity pH O Chloride 1 Sulfate 2 Nickel (Ni) 3 Arsenic Glucose 5 5 Sulfate ash Water 9 sulfate ash 0 Reducing sugars 2 Related substance	Sr. No. Test	Manufacturer COA	Pharmacopeial Specifications		
Solubility Identification 1 Identification 2 Identification 3 Identification 4 Conductivity PH Chloride Identification 4 Conductivity PH Chloride Identification 4 Glucose Suffate Loss on drying Heavy metals Water Sulfate ash Residue on ignition Reducing sugars Identification 3		Complies Ph. Eur., USP-NF	USP 2022	EP Version 11.0	JP 18
Identification 1 Identification 2 Identification 3 Identification 4 Appearance of soli Conductivity pH O Chloride 1 Sulfate 2 Nickel (Ni) 3 Arsenic 4 Glucose 5 Sugars 6 Loss on drying 7 Heavy metals 8 Water 9 sulfated ash 0 Residue on ignition 1 Reducing sugars 2 Related substance	vescription	Solid	White granules, powder, or crystalline masses. It is odorless, and has a sweet taste with a cold sensation.It is hygroscopic	white or almost white, crystalline powder. It shows polymorphism	White, granules, powder, or crystalline masses. It odorless, and has a sweet taste with a cold sensation. It is hygroscopic.
Identification 2 Identification 3 Identification 4 Appearance of solition Conductivity pH O Chloride 1 Sulfate 2 Nickel (Ni) 3 Arsenic 4 Glucose 5 Sugars 6 Loss on drying 7 Heavy metals 8 Water 9 sulfated ash 0 Residue on ignition 1 Reducing sugars 2 Related substance	- -	Very soluble in water	Very soluble in water; sparingly soluble in alcohol; and practically insoluble in ethyl ether.	%).	It is very soluble in water, sparingly soluble in ethanol (95), and practically insoluble in diethyl ether.
Identification 3 Identification 4 Appearance of solitic Conductivity pH O Chloride 1 Sulfate 2 Nickel (Ni) 3 Arsenic 4 Glucose 5 Sugars 6 Loss on drying 7 Heavy metals 8 Water 9 sulfated ash 0 Residue on ignition 1 Reducing sugars 2 Related substance	dentification 1	Passes The Test	Should comply by deep pink or wine-red color appearance	In assay test, the principal peak in the chromatogram obtained with the test solution is similar in retention time and size to the principal peak in the chromatogram obtained with reference solution.	A blue-green color should develop, but no turbidit should be produced.
Identification 4 Appearance of soli Conductivity pH .0 Chloride .1 Sulfate .2 Nickel (Ni) .3 Arsenic .4 Glucose .5 Sugars .6 Loss on drying .7 Heavy metals .8 Water .9 sulfated ash .0 Residue on ignition .1 Reducing sugars .2 Related substance	dentification 2	Passes The Test	In the assay test, the retention time of the major peak of the sample solution corresponds to that from the standard solution.	By TLC test, the principal spot in the chromatogram obtained with the test solution is similar in position, colour and size to the principal spot in the chromatogram obtained with reference solution (a).	Should comply by a reddish purple to red-purple color formation
Appearance of soli Conductivity pH 0 Chloride 1 Sulfate 2 Nickel (Ni) 3 Arsenic 4 Glucose 5 Sugars 6 Loss on drying 7 Heavy metals 8 Water 9 sulfated ash 0 Residue on ignition 1 Reducing sugars 2 Related substance	dentification 3	Passes The Test	Not mentioned	The residue should melt in the range 98°C and 104°C	The residue should melt in the range 97°C and 10
Conductivity pH 0 Chloride 1 Sulfate 2 Nickel (Ni) 3 Arsenic 4 Glucose 5 Sugars 6 Loss on drying 7 Heavy metals 8 Water 9 sulfated ash 10 Residue on ignition 11 Reducing sugars 12 Related substance	dentification 4	Passes The Test	Not mentioned	Specific optical rotation should be between+ 4.00 and + 7.00 (anhydrous substance)	Not mentioned
pH 0 Chloride 1 Sulfate 2 Nickel (Ni) 3 Arsenic 4 Glucose 5 Sugars 6 Loss on drying 7 Heavy metals 8 Water 9 sulfated ash 0 Residue on ignition 1 Reducing sugars 2 Related substance	ppearance of solution	Passes The Test	Not mentioned	Sample solution should be clear and colourless	Sample solution should be clear and colourless
0 Chloride 1 Sulfate 2 Nickel (Ni) 3 Arsenic 4 Glucose 5 Sugars 6 Loss on drying 7 Heavy metals 8 Water 9 sulfated ash 0 Residue on ignition 1 Reducing sugars 2 Related substance		NMT 20 μS·cm ⁻¹	Not mentioned	NMT 20 μS·cm ⁻¹	Not mentioned
1 Sulfate 2 Nickel (Ni) 3 Arsenic 4 Glucose 5 Sugars 6 Loss on drying 7 Heavy metals 8 Water 9 sulfated ash 0 Residue on ignition 1 Reducing sugars 2 Related substance		Between 3.5 and 7.0	Between 3.5 and 7.0	Not mentioned	Not mentioned
2 Nickel (Ni) 3 Arsenic 4 Glucose 5 Sugars 6 Loss on drying 7 Heavy metals 8 Water 9 sulfated ash 00 Residue on ignition 1 Reducing sugars 2 Related substance		Not mentioned	NMT 0.005%	Not mentioned	NMT 0.005%
3 Arsenic 4 Glucose 5 Sugars 5 Loss on drying 7 Heavy metals 8 Water 9 sulfated ash 10 Residue on ignition 11 Reducing sugars 2 Related substance		Not mentioned	NMT 0.01%	Not mentioned	NMT 0.006%
4 Glucose 5 Sugars 6 Loss on drying 7 Heavy metals 8 Water 9 sulfated ash 0 Residue on ignition 1 Reducing sugars 2 Related substance		NMT 0.0001%	NMT 1 ppm	Not mentioned	No red color should develop.
5 Sugars 5 Loss on drying 7 Heavy metals 8 Water 9 sulfated ash 0 Residue on ignition 1 Reducing sugars 2 Related substance		Not mentioned	Not mentioned	Not mentioned	NMT 1.3 ppm
5 Loss on drying 7 Heavy metals 8 Water 9 sulfated ash 0 Residue on ignition 1 Reducing sugars 2 Related substance		Not mentioned	Not mentioned	Not mentioned	NMT 6.3 mL of 0.02 M KMnO4 is required.
7 Heavy metals 3 Water 9 sulfated ash 10 Residue on ignition 1 Reducing sugars 2 Related substance		Not mentioned	Not mentioned	Not mentioned	NMT 6.3 mL of 0.02 M KMnO4 is required.
3 Water 9 sulfated ash 1 Residue on ignition 1 Reducing sugars 2 Related substance		Not mentioned	Not mentioned	Not mentioned	NMT 2.0%
9 sulfated ash 0 Residue on ignition 1 Reducing sugars 2 Related substance		Not mentioned	Not mentioned	Not mentioned	NMT 5 ppm
0 Residue on ignition 1 Reducing sugars 2 Related substance		NMT 1.5%	NMT1.5% Not mentioned	NMT 1.5% Not mentioned	Not mentioned Not mentioned
Reducing sugars Related substance		Not mentioned	NMT 0.1%	Not mentioned	NMT 0.02%
2 Related substance		NMT 0.2%	NMT 0.1%	NMT 0.2%	Not mentioned
2 Microbial contami	elated substances	Maximum individual impurity: NMT 2.0%	Not mentioned	Maximum individual impurity: NMT 2.0%	Not mentioned
	Aicrobial contamination	Total Impurity: NMT 3.0% TAMC - NMT 10 ³ CFU/g TYMC - NMT 10 ² CFU/g Escherichia coli - Absent Salmonella - Absent	TAMC - NMT 10 ³ CFU/g TYMC - NMT 10 ² CFU/g	Total Impurity: NMT 3.0% TAMC - NMT 10 ² CFU/g TYMC - NMT 10 ² CFU/g Escherichia coli - Absent Salmonella - Absent	Not mentioned
4 Assay (Anhydrous	ssay (Anhydrous basis)	Between 97.0% - 100.5%	Between 91.0% - 100.5%	Between 97.0% and 102.0%	NLT 97.0%
Storage	torage	Storage at room temperature	Preserve in well-closed containers.	Not mentioned	Tight containers

Disclaimer - The information above is solely for your consideration. We do not recommend or affirm the suitability for any specific end use. We suggest the users should research & verify the specifications in accordance with their intended usage.