

Maximum unspecified impurity: NMT 0.1%

Total impurities: NMT 0.5%

## " clyzo " - Monograph Comparison



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clyzo

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		ASPER	CURRENT USP 2022/EP11/JF	218		
	Product Name	D(+)-Glucose 1-hydrate (USP, BP, Ph. Eur.) pure, pharma grade	PanReac 🜮	Issue Date	March-23	
	Product Code	143140 77938-63-7 PanReac AppliChem	PanReac AppliChem	Prepared by Reviewed by Version no.	Sr. Tech Lead Manager Technical CLYZO/PAN/143140/01	
	CAS NO.					
	Manufacturer Name					
			•			
r. No.	Test	Manufacturer COA	Pharmacopeial Specifications			
		Complies USP, Ph. Eur., BP	USP 2022	EP Version 11.0	JP 18	
	Description	White small crystals	Colorless crystals or white, crystalline or granular powder. It is odorless, and has a sweet taste	white or almost white, crystalline powder	White, crystals or crystalline powder, and has a sweet taste.	
	Solubility	Soluble in water	Very soluble in boiling water; freely soluble in water; soluble in boiling alcohol; slightly soluble in alcohol.	Freely soluble in water, very slightly soluble in ethanol (96 per cent)	Freely soluble in water, sparingly soluble in methanol, and slightly soluble in ethanol	
	Identification 1	Specific optical rotation should be between + 52.5 and + 53.3	The Infrared absorption spectrum obtained with sample should be concordant with spectrum obtained with Dextrose Anhydrous reference standard/working standard.	Specific optical rotation should be between + 52.5 and + 53.3	A red precipitate should be produced on boiling with fehlling solution	
	Identification 2	Passes the test	In the assay test, the principal peak from the Sample solution should be similar in retention time and size to the principal peak from Standard solution	In the assay test, the principal peak from the Sample solution should be similar in retention time and size to the principal peak from Standard solution	In the assay test, the principal peak from the Sample solution is similar in retention time and size to the principal peak from Standard solution	
	Identification 3	Passes the test	Not mentioned	By TLC: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 the reference solution	Not mentioned	
	Identification 4	Passes the test	Should comply with water test	Water content should be between 7.5% and 9.5%	Not mentioned	
	Identification 5	Passes the test	Not mentioned	No Red Colour should develop on addition of Resorcinol and hydrochloric acid and heating.	Not mentioned	
	Color and Clarity of Solution/Appearance of solution	Passes the test	The Sample solution should not be more colored than control solution	The solution should be clear and not more intensely coloured than reference solution BY7	Sample solution should be clear and not more intensely colored than reference solution BY7	
	Matter insoluble in water	NMT 0.01%				
)	Conductivity	NMT 20 μS/cm-1	Not mentioned	NMT 20 µS/cm-1	NMT 20 μS/cm-1	
L	Dextrin	Passes the test	The sample should dissolve completely.	The substance should dissolve completely	Sample solution should be clear	
2	Water	Between 7.5% and 9.5 %	Between 7.5% and 9.5%	Between 7.5% and 9.5%	Between 7.5% and 9.5%	
3	Soluble Starch and sulfites	NMT 15 ppm	The liquid should be colored yellow	NMT 15 ppm	NMT 15 ppm	
4	Related Substances	Maltose & Isomalt: NMT 0.4% Maltotriose: NMT 0.2% Fructose: NMT 0.15%	Maltose & Isomalt: NMT 0.4% Maltotriose: NMT 0.2% Fructose: NMT 0.15%	Maltose & Isomaltose: NMT 0.4% Maltotriose: NMT 0.2% Fructose: NMT 0.15%	Maltose & Isomalt: NMT 0.4% Maltotriose: NMT 0.2% Fructose: NMT 0.15%	
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Notes and a second seco	ot mentioned ot mentioned MT 0.0005% MT 0.02% MT 0.0005% ot mentioned	NMT 0.018% NMT 0.025% NMT 1 ppm Not mentioned Not mentioned NMT 0.1% Between 97.5% and 102.0% Not mentioned	Not mentioned         Not mentioned         Not mentioned         Not mentioned         Not mentioned         Not mentioned         Between 97.5% and 102.0%         Not mentioned	Not mentioned         Not mentioned         NMT 4 ppm         Not mentioned         Not mentioned         Not mentioned         Between 97.5% and 102.0%
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N	MT 10 ppm			
10	MT 15 ppm			
N	MT 15 ppm			
10	MT 10 ppm			
10	MT 55 ppm			
10	MT 120 ppm			
N	MT 250 ppm			
N	MT 600 ppm			
10	MT 25 ppm			
		Not mentioned	Not mentioned	Not mentioned
Ke	eep container tightly closed in a dry and well-		Not mentioned	Preserve in tight containers
ve	entilated place.			i contente in tight containers
ent	N N N N N K S K	NMT 10 ppm           NMT 55 ppm           NMT 120 ppm           NMT 140 ppm           NMT 25 ppm           NMT 250 ppm           NMT 600 ppm           NMT 25 ppm           NMT 25 ppm           Passes the test	NMT 10 ppm         NMT 55 ppm         NMT 120 ppm         NMT 140 ppm         NMT 25 ppm         NMT 250 ppm         NMT 600 ppm         NMT 25 ppm         NMT 25 ppm         State         Passes the test         Keep container tightly closed in a dry and well-         Preserve in well-closed containers.	NMT 10 ppm         NMT 55 ppm         NMT 120 ppm         NMT 140 ppm         NMT 25 ppm         NMT 250 ppm         NMT 600 ppm         NMT 25 ppm         NMT 25 ppm         NMT 25 ppm         NMT 25 ppm         NMT 600 ppm         ts       Passes the test         Keep container tightly closed in a dry and well-         Preserve in well-closed containers.         Not mentioned

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.