



" clyzo " - Monograph Comparison



AS PER CURRENT USP 2022/EP11/JP18

Product Name	Saccharose (BP, Ph. Eur., DAB, JP) pure, pharma grade (Sucrose)		Issue Date	March-23
Product Code	ST1621		Prepared by	Sr. Tech Lead
CAS NO.	57-50-1		Reviewed by	Manager Technical
Manufacturer Name	PanReac AppliChem		Version no.	CLYZO/PAN/ST1621/01

Sr. No.	Test	Manufacturer COA	Pharmacopeial Specifications		
		<i>Complies BP, Ph. Eur., DAB, JP</i>	<i>USP 2022</i>	<i>EP Version 11.0</i>	<i>JP 18</i>
1	Description	Small white crystals	White, crystalline powder or lustrous, dry, colorless or white crystals.	White or almost white, crystalline powder, or lustrous, colourless or white or almost white crystals.	White or almost white, crystalline powder, or lustrous, colourless or white or almost white crystals.
2	Solubility	Soluble in water	Very soluble in water; slightly soluble in alcohol; practically insoluble in dehydrated alcohol.	Very soluble in water, slightly soluble in ethanol (96 per cent), practically insoluble in anhydrous ethanol.	Very soluble in water, and practically insoluble in ethanol (99.5)
3	Identification 1	Passes the test	The infrared absorption spectrum obtained with sample should be concordant with spectrum obtained from Surcose reference/working standard	The infrared absorption spectrum obtained with sample should be concordant with spectrum obtained from Surcose reference/working standard	The infrared absorption spectrum obtained with sample should be concordant with spectrum obtained from Surcose reference/working standard
4	Identification 2	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 reference solution (a).	Not mentioned
5	Identification 3	Passes the test	Not mentioned	Should comply by an orange color formation immediately	Not mentioned
6	Optical Rotation	Between 66.3 ⁰ and 67.0 ⁰	Between 66.3 ⁰ and 67.0 ⁰	Between 66.3 ⁰ and 67.0 ⁰	Between 66.3 ⁰ and 67.0 ⁰
7	Color value	NMT 45	NMT 45	NMT 45	NMT 45
8	Appearance of solution /clarity of solution	Passes the test	Sample solution clarity should be same as that of water or its opalescence is not more pronounced than that of Reference suspension I.	Sample solution should be clear	Sample solution should be clear, and its clarity is not different from water, or its opalescence is not more than reference suspension 1
9	Sulfite	NMT 10 ppm	NMT 10 ppm	NMT 10 ppm	NMT 10 ppm
10	Reducing sugars	The blue color should not disappear completely.	The blue color should not disappear completely.	The blue color should not disappear completely.	The blue color should not disappear completely.
11	Conductivity	NMT 35 mS · cm ⁻¹	NMT 35 mS · cm ⁻¹	NMT 35 mS · cm ⁻¹	NMT 35 mS · cm ⁻¹
12	Acidity or alkalinity	Passes the test	Not mentioned	Not mentioned	Not mentioned
13	Matter insoluble in water	Passes the test	Not mentioned	Not mentioned	Not mentioned
14	Loss on drying	NMT 0.1%	NMT 0.1%	NMT 0.1%	NMT 0.1%
15	Glucose and inverted sugar	NMT 0.4%	Not mentioned	Not mentioned	Not mentioned
16	Dextrin	Passes the test	Sample solution should remain yellow	Sample solution should remain yellow	Sample solution should remain yellow
	Elemental Impurities				
	Cd	NMT 0.5 ppm			
	Pb	NMT 0.5 ppm			
	Assay	NMT 1.5 ppm			
	Hg	NMT 1.5 ppm			
	CO	NMT 5 ppm			

17	V	NMT 10 ppm	Not mentioned	Not mentioned	Not mentioned
	Ni	NMT 20 ppm			
	Tl	NMT 0.8 ppm			
	Au	NMT 10 ppm			
	Pd	NMT 10 ppm			
	Ir	NMT 10 ppm			
	Os	NMT 10 ppm			
	Rh	NMT 10 ppm			
	Ru	NMT 10 ppm			
	Se	NMT 15 ppm			
	Ag	NMT 15 ppm			
	Pt	NMT 10 ppm			
	Li	NMT 55 ppm			
	Sb	NMT 120 ppm			
	Ba	NMT 140 ppm			
	Mo	NMT 25 ppm			
	Cu	NMT 250 ppm			
Sn	NMT 600 ppm				
Cr	NMT 25 ppm				
18	Residual solvent	Passes the test	Not mentioned	Not mentioned	Not mentioned
	Storage	Store at room temperature	Preserve in well-closed containers.	Protected from light	Store in well closed containers.
<p>Note - If you need any additional testing, you may use our Additional Testing Feature on the product page or contact your Clyzo representative.</p>					
<p>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.</p>					