

Calcium & Magnesium

NMT 0.005%

" clyzo " - Monograph Comparison





The solution should be clear.

AS PER CURRENT USP 2022/EP11/JP18 D(-)-Fructose (USP, BP, Ph. Eur.) pure, pharma grade **Product Name** Issue Date March-23 **Product Code** 142728 Sr. Tech Lead Prepared by 57-48-7 CAS NO. Reviewed by Manager Technical **Manufacturer Name** PanReac AppliChem Version no. CLYZO/PAN/142728/01 Pharmacopeial Specifications Manufacturer COA Sr. No. Test Complies USP, BP, Ph, Eur USP 2022 EP Version 11.0 JP 18 White crystalline powder Descriprion Colorless crystals or as a white, crystalline White or almost white, crystalline powder. Colorless to white, crystals or crystalline powder. It is odorless, and has a sweet taste. powder. It is odorless and has a sweet taste. It is Solubility It is very soluble in water, sparingly soluble in Soluble in water Freely soluble in water; soluble in alcohol and Very soluble in water, soluble in ethanol (96 %). ethanol (95) and practically insoluble in diethyl in methanol. Identification 1 Passes The Test The Infrared absorption spectrum obtained The Infrared absorption spectrum obtained Not mentioned with sample should be concordant with with sample should be concordant with spectrum obtained with Fructose reference spectrum obtained with Fructose reference standard/ working standard standard/working standard Identification 2 Passes The Test Should comply by red precipitate formation Should comply by red precipitate formation Not mentioned Identification 3 Passes The Test Not mentioned By TLC, the principal spot in the chromatogram Not mentioned obtained with the test solution is similar in position, colour and size to the principal spot in the chromatogram obtained with reference solution Identification 4 Passes The Test Not mentioned Should comply by brown colour formation Not mentioned Identification 5 Not mentioned Not mentioned Should comply by red colour formation Not mentioned 5.9 to 6.4 Not mentioned Not mentioned Between 4.0 and 6.5 Clarity and colour of Solution Passes The Test The Sample solution should not more Sample solution should be clear and colourless The solution should be clear and has no more intensely coloured than standard solution. color than the control solution Acidity/Alkalinity Passes The Test NMT 0.50 ml of 0.02M NaOH is required NMT 0.15 ml of 0.1 M NaOH is required to change After addition of 0.60 ml of 0.01 M NaOH a red the colour of the indicator to pink color should be developed Specific optical rotation Between - 93.5° and - 91.0° (anhydrous substance). Not mentioned Between - 93.5° and - 91.0° (anhydrous substance). Not mentioned Water Content NMT 0.5% Not mentioned Not mentioned Foreign sugars Passes The Test Not mentioned Any opalescence in the solution should not more Not mentioned intense than that in a mixture of 1 ml of the initial solution and 9 ml of water NMT 0.1% NMT 0.5% Residue on Ignition Not mentioned NMT 0.1% NMT 0.1% 15 Sulfated ash Not mentioned Not mentioned Not mentioned NMT 0.5% NMT 0.5% NMT 0.5% 16 Loss on Drying Not mentioned 5-Hydroxymethylfurfural and related A slight pink color may develop, but no cherry Absorbance should ne NMT 0.32. Passes The Test Absorbance should ne NMT 0.32. compounds red color should appears immediately. 18 Chloride NMT 0.005% NMT 0.018% NMT 0.018% Not mentioned 19 Sulfated NMT 0.005% NMT 0.025% NMT 0.024% Not mentioned Arsenic Not mentioned nmt 1 ppm Not mentioned NMT 1.3 ppm

NMT 0.005%

Not mentioned

22	Sulfite	Not mentioned	Not mentioned	Not mentioned	The color of the solution should be yellow.
23	Heavy metals	Not mentioned	Not mentioned	Not mentioned	NMT 4 ppm
24	Barium	Passes The Test	Not mentioned	Not mentioned	Not mentioned
25	Calcium	NMT 0.002%	Not mentioned	Not mentioned	Not mentioned
26	Magnesium	NMT 0.002%	Not mentioned	Not mentioned	Not mentioned
27	Lead	NMT 0.00005%	Not mentioned	Not mentioned	Not mentioned
28	Assay (Dried basis)	Between 98.0% and 102.0%	Between 98.0% and 102.0%	Not mentioned	NLT 98.0%
29	Elemental Impurities		Not mentioned	Not mentioned	Not mentioned
	Cd	NMT 0. 5 ppm			
	Pb	NMT 0.5 ppm			
	As	NMT 1 ppm			
	Hg	NMT 1.5 ppm			
	СО	NMT 5 ppm			
	V	NMT 10 ppm			
	Ni	NMT 20 ppm			
	П	NMT 5 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			
	Ва	NMT 140 ppm			
	Мо	NMT 25 ppm			
	Cu	NMT 250 ppm			
	Sn	NMT 600 ppm			
	Cr	NMT 25 ppm	1		
30	Residual solvents	Passes The Test	Not mentioned	Not mentioned	Not mentioned
	Storage	Store at room temperature	Preserve in well-closed containers.	Not mentioned	Tight containers

Note - If you need any additional testing, you may use our Additional Testing Feature on the product page or contact your Clyzo reprensentive.

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.