

## " clyzo " - Monograph Comparison





	AS PER CURRENT USP 2022/EP11/JP18								
	Product Name	Glycine (USP, BP, Ph. Eur.) pure, pharma grade		Issue Date	March-23				
	Product Code	141340	PanReac 🢝	Prepared by	Sr. Tech Lead				
	CAS NO.	56-40-6 PanReac AppliChem	PanReac AppliChem	Reviewed by	Manager Technical				
	Manufacturer Name			Version no.	CLYZO/PAN/141340/01				
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Sr. No.	Test	Manufacturer COA	Pharmacopeial Specifications						
		Complies USP, BP, Ph. Eur	USP 2022	EP Version 11.0	JP 18				
1	Description	White crystalline powder	White, odorless, crystalline powder, having a sweetish taste. Its solutions are acid to litmus.	White or almost white, crystalline powder. It shows polymorphism	White, crystals or crystalline powder. It has a sweet taste. It shows crystal polymorphism.				
2	Solubility	Freely soluble in water	Freely soluble in water; very slightly soluble in alcohol and in ether.	Freely soluble in water, very slightly soluble in ethanol (96 %)	Freely soluble in water and in formic acid, and practically insoluble in ethanol (95).				
3	Identification 1	Passes The Test	The infrared absorption spectrum obtained with sample should be concordant with spectrum obtained with glycine reference standard/ working standard.	The infrared absorption spectrum obtained with sample should be concordant with spectrum obtained with glycine reference standard/working standard.	The infrared absorption spectrum obtained with sample should be concordant with spectrum obtained with glycine reference standard/ 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 the reference solution.	Not mentioned				
5	Identification 3	Passes The Test	Not mentioned	The colour should become orange and then yellow and an intense fluorescence remains.	Not mentioned				
6	Appearance of solution	Passes The Test	Not mentioned	Sample solution should be clear and not more intensely coloured than reference solution Y7	Sample solution should be clear and colorless				
7	pH	Between 5.9 and 6.4	Not mentioned	Between 5.9 and 6.4	Between 5.6 and 6.6				
8	Chloride (CI)	NMT 0.007 %	NMT 0.007 %	NMT 75 ppm	NMT 0.021 %				
9	Ammonium	NMT 0.02%	NA	NMT 0.02%	NMT 0.02 %				
10	Sulfates	NMT 0.0065 %	NMT 0.0065 %	NA	NMT 0.028 %				
11	Related substances	Glycine anhydride: NMT 0.1% Iminodiacetic acid: NMT 0.1% Diglycine: NMT 0.1% Triglycine: NMT 0.1% Hexamethylenetetramine: NMT 0.1% Monochloroacetic acid: NMT 0.1% Maximum unknown impurity: NMT 0.1% Total impurities: NMT 0.2%	Glycine anhydride: NMT 0.1% Iminodiacetic acid: NMT 0.1% Diglycine: NMT 0.1% Triglycine: NMT 0.1% Hexamethylenetetramine: NMT 0.1% Total impurities: NMT 0.2%	Impurity B: NMT 0.10% Impurity H: NMT 0.10% Impurity I: NMT 0.10% Maximum unknown impurity: NMT 0.10% Total impurities: NMT 0.2%	NMT 0.5%				
12	Ninhydrine positive substances	Any ninhydrin positive substance: NMT 0.01% Total ninhydrin positive substances: NMT 1.0%	Not mentioned	Any ninhydrin positive substance: NMT 0.01% Total ninhydrin positive substances: NMT 1.0%	Not mentioned				
13	Hydrolyzable substances	Passes The Test	The solution should appear as clear and as mobile as 10 ml of the same solution that has not been boiled.	Not mentioned	Not mentioned				

16 Re 17 St 18 Lc 19 As El Cc Pt As	Arsenic Residue on ignition Sulfated ash Loss on drying Assay (Dried basis) Elemental Impurities Cd Pb Ass	Not mentioned Not mentioned NMT 0.1 % NMT 0.2 % Between 99.0% and 101.0 %  NMT 0.5 ppm NMT 0.5 ppm NMT 1.5 ppm	Not mentioned  NMT 0.1 %  Not mentioned  NMT 0.2 %  Between 98.5 % and 101.5 %  Not mentioned	Not mentioned Not mentioned NMT 0.1 % NMT 0.5 % Between 98.5 % and 101.0 % Not mentioned	NMT 2 ppm NMT 0.1 % Not mentioned NMT 0.30 % NLT 98.5% Not mentioned
17 St. 18 Lc 19 As  EI Cc Pt As	Sulfated ash Loss on drying Assay (Dried basis) Elemental Impurities Cd Pb As	NMT 0.1 % NMT 0.2 % Between 99.0% and 101.0 %  NMT 0.5 ppm NMT 0.5 ppm NMT 1.5 ppm	Not mentioned NMT 0.2 % Between 98.5 % and 101.5 %	NMT 0.1 % NMT 0.5 % Between 98.5 % and 101.0 %	Not mentioned NMT 0.30 % NLT 98.5%
18 Lc 19 As EI Cc Pt As	Loss on drying Assay (Dried basis) Elemental Impurities Cd Pb As	NMT 0.2 % Between 99.0% and 101.0 %  NMT 0.5 ppm  NMT 0.5 ppm  NMT 1.5 ppm	NMT 0.2 % Between 98.5 % and 101.5 %	NMT 0.5 % Between 98.5 % and 101.0 %	NMT 0.30 % NLT 98.5%
19 As El Cc Pt As	Assay (Dried basis) Elemental Impurities Cd Pb As	NMT 0.5 ppm NMT 1.5 ppm NMT 1.5 ppm	Between 98.5 % and 101.5 %	Between 98.5 % and 101.0 %	NLT 98.5%
EI Cc Pt As	Elemental Impurities Cd Pb As Hg	NMT 0. 5 ppm NMT 0.5 ppm NMT 1.5 ppm			
Cc Pt As	Cd Pb As Hg	NMT 0.5 ppm NMT 1.5 ppm	Not mentioned	Not mentioned	Not mentioned
Pt As Hg	Pb As Hg	NMT 0.5 ppm NMT 1.5 ppm			
As H	As Hg	NMT 1.5 ppm			
H	Hg				
ı —					
I	<u>^</u> 0	NMT 1.5 ppm			
C		NMT 5 ppm			
V	V	NMT 10 ppm			
Ni	Ni	NMT 20 ppm			
TI	П	NMT 1 ppm			
Αı	Au	NMT 10 ppm			
Pr	Pd	NMT 10 ppm			
Ir	r	NMT 10 ppm			
20 O:	Os	NMT 10 ppm			
RI	Rh	NMT 10 ppm			
Ri	Ru	NMT 10 ppm			
Se	Se	NMT 15 ppm			
A	Ag	NMT 15 ppm			
Pt	Pt	NMT 10 ppm			
Li	Li	NMT 55 ppm			
Sł	Sb	NMT 120 ppm			
Bi	Ва	NMT 140 ppm			
M	Mo	NMT 25 ppm			
Cr	Cu	NMT 250 ppm			
I -	Sn	NMT 600 ppm			
Cr	Cr	NMT 25 ppm			
	Residual solvents	Passes The Test	Not mentioned	Not mentioned	Not mentioned
	Storage	Store at room temperature Preserve in well-closed containers at room temperature.			
					Well closed 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.