

" clyzo " - Monograph Comparison 🔗





AS PER CURRENT USP 2022/EP11/JP18					
	Product Name	L-Lysine Monohydrochloride (Ph. Eur., USP) pure, pharma grade	PanReac AppliChem	Issue Date	March-23
	Product Code	A1706		Prepared by	Sr. Tech Lead
	CAS NO.	657-27-2	AppliChem	Reviewed by	Manager Technical
	Manufacturer Name	PanReac AppliChem	ITW Reagents	Version no.	CLYZO/PAN/A1706/01
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ir. No.	Test	Manufacturer COA		Pharmacopeial Specifications	
		Complies USP, Ph. Eur	USP 2022	EP Version 11.0	JP 18
L	Description	Solid	White, odorless crystals or crystalline powder, having an acid taste	White or almost white, crystalline powder or colourless crystals.	White powder, It has a slight, characteristic taste It shows polymorphism
2	Solubility	Freely soluble in water	Freely soluble in water	Freely soluble in water, slightly soluble in ethanol (96%).	It is freely soluble in water and in formic acid, and practically insoluble in ethanol (95).
3	Identification 1	Passes The Test	Not mentioned	Should comply with specific rotation test	 When mixed with sulfuric acid and potassium permanganate, and heated should evolve odour chlorine 2. Should comply by formation of a white precipitate with silver nitrate which is not soluble in HNO3 but soluble in excess Ammonia
l	Identification 2	Passes The Test	The Infrared absorption spectrum obtained with sample should be concordant with spectrum obtained with Lysine hydrochloride reference standard/working standard.	The Infrared absorption spectrum obtained with sample should be concordant with spectrum obtained with Lysine hydrochloride reference standard/working standard.	The Infrared absorption spectrum obtained with sample should be concordant with spectrum obtained with Lysine hydrochloride reference standard/working standard.
	Identification 3	Passes The Test	Not mentioned	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 the reference solution	Not mentioned
5	Identification 4	Passes The Test	Not mentioned	Should comply by a yellowish-white precipitate formation	Not mentioned
7	Identification 5	Passes The Test	Not mentioned	Should comply by formation of a white precipitate with silver nitrate which is soluble in excess Ammonia	Not mentioned
3	Chloride	Between 19.0% and 19.0%	Between 19.0% and 19.0%	Not mentioned	Not mentioned
1	Sulfate	NMT 0.03%	NMT 0.03%	NMT 0.03%	NMT 0.028%
.0	Iron	NMT 0.003%	NMT 30 ppm	NMT 30 ppm	NMT 10 ppm
.1	Ammonium	NMT 0.02%	Not mentioned	NMT 0.02%	NMT 0.02%
2	Arsenic	Not mentioned	Not mentioned	Not mentioned	NMT 2 ppm
3	Heavy metals	Not mentioned	Not mentioned	Not mentioned	NMT 10 ppm
4	Clarity and color of solution/appearance of solution	Passes The Test	Not mentioned	Sample solution should be clear and not more intensely coloured than B7 or GY7	Sample solution should be colorless and clear.
15	Optical Rotation	Between +20.4° and +21.4° (at 25° C) Between+ 21.00 and + 22.50 (at 20° C)	Between +20.4° and +21.4°	Between+ 21.0° and + 22.5°	Between $\pm 19.5^{\circ}$ and $\pm 21.5^{\circ}$
16	рН	Not mentioned	Not mentioned	Not mentioned	Between 5.0 and 6.0
.7	Related substances/Ninhydrin positive substances	BY HPLC: Any ninhydrin-positive substance: for each impurity: NMT 0.2% Total ninhydrin-positive substance: total impurities: NMT 1.0% By TLC: Any Individual impurity: NMT 0.5% Total impurities: NMT 2.0%	Any Individual impurity: NMT 0.5% Total impurities: NMT 2.0%	Any ninhydrin-positive substance: for each impurity: NMT 0.2% Total ninhydrin-positive substance: total impurities:NMT 1.0%	NMT 0.5%
.8	Sulfated Ash	NMT 0.1%	Not mentioned	NMT 0.1%	Not mentioned
.9	Residue on Ignition	Not mentioned	NMT 0.1%	Not mentioned	NMT 0.1%
0	Loss on driying	NMT 0.4%	NMT 0.4%	NMT 0.5%	NMT 1.0%
1	Assay (dried basis)	Between 98.5% and 101.0%	Between 98.5% and 101.5%	Between 98.5% and 101.0%	NLT 98.5%
2	Elemental Impurities (as per ICH)	Passes The Test			
	Storage	Storage at room temperature	Preserve in well-closed containers	Protected from light.	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.