



" clyzo " - Monograph Comparison



AS PER CURRENT USP 2022/EP11/JP18

Product Name	L-Glutamine (DAB, USP) pure, pharma grade		Issue Date	March-23
Product Code	A1420		Prepared by	Sr. Tech Lead
CAS NO.	56-85-9		Reviewed by	Manager Technical
Manufacturer Name	PanReac AppliChem		Version no.	CLYZO/PAN/A1420/01

Sr. No.	Test	Pharmacopeial Specifications			
		Manufacturer COA	USP 2022	EP Version 11.0	JP 18
1	Description	Complies USP Not mentioned	White crystals or crystalline powder	Product Not Official in European Pharmacopoeia	White, crystals or a crystalline powder. It has a slight characteristic taste.
2	Solubility	Complies USP Not mentioned	Soluble in water; practically insoluble in alcohol and in ether		Freely soluble in formic acid, soluble in water, and practically insoluble in ethanol (99.5).
3	Identification 1	Complies USP Passes the test	The infrared absorption spectrum obtained with sample should be concordant with the spectrum obtained with Glutamine reference/working standard		The infrared absorption spectrum obtained with sample should be concordant with the spectrum obtained with L-Glutamine reference/working standard
4	Clarity and color of solution	Complies USP Passes the test	NA		Sample solution should be clear and colorless
5	Chloride	Complies USP NMT 0.02%	NMT 0.05%		NMT 0.021%
6	Sulfate	Complies USP NMT 0.02%	NMT 0.03%		NMT 0.028%
7	Optical Rotation	Complies USP Between +6.30 and +7.30 (in water) Between +31.5° and +33.0° (in HCl)	Between +6.3° and +7.3°		Between +6.3° and +7.3°
8	Ammonium	Complies USP NMT 0.1%	NA		NMT 0.1%
9	Heavy metals	Complies USP Not mentioned	NA		NMT 10 ppm
10	Iron	Complies USP NMT 10 ppm	NMT 30 ppm		NMT 10 ppm
11	pH	Complies USP Between 4.0 and 6.0	NA		Between 4.5 and 6.0
12	Related substances	Complies USP NMT 0.5%	NMT 0.5%		NMT 2.0%
13	Residue on ignition	Complies USP NMT 0.1%	NA		NMT 0.1%
14	Loss on drying	Complies USP NMT 0.3%	NMT 0.3%		NMT 0.3%
15	Assay (dried basis)	Complies USP Between 99.0% and 101.0%	Between 98.5% and 101.5%		Between 99.0% and 101.0%
	Storage	Complies USP Keep in well closed containers	Preserve in well-closed containers, and store at controlled room temperature	Store in tight containers	

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

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.