

" clyzo " - Monograph Comparison





	Product Name	L-leucine (Ph. Eur., USP) pure, pharma grade	DeviDese	Issue Date	March-23
	Product Code	A1426 61-90-5 PanReac AppliChem	PanReac AppliChem	Prepared by	Sr. Tech Lead
	CAS NO.			Reviewed by	Manager Technical
Manufa	Manufacturer Name			Version no.	CLYZO/PAN/A1426/01
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Sr. No.	Test	Manufacturer COA		Pharmacopeial Specifications	
		Complies Ph. Eur., USP	USP 2022	EP Version 11.0	JP 18
1	Description	Solid	White, practically odorless, tasteless crystals	white or almost white, crystalline powder or shiny flakes	White, crystals or crystalline powder. It is odorless or has a faint characteristic odor, and has a slightly bitter taste
2	Solubility	Not mentioned	Sparingly soluble in water; insoluble in ether	Sparingly soluble in water, practically insoluble in ethanol (96 %). It dissolves in dilute mineral acids and in dilute solutions of alkali hydroxides	Freely soluble in formic acid, sparingly soluble in water, and practically insoluble in ethanol (95%).It dissolves in HCl
3	Identification 1	Passes Test	The infrared absorption spectrum obtained with sample should be concordant with spectrum obtained with l-Leucine reference standard/working standard	The infrared absorption spectrum obtained with sample should be concordant with spectrum obtained with I-Leucine reference standard/working standard	The infrared absorption spectrum obtained with sample should be concordant with spectrum obtained with I-Leucine reference standard/working standard
4	Identification 2	Passes Test	Not mentioned	Should comply with optical rotation test	Not mentioned
5	Identification 3	Passes 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
6	Specific optical rotation	Between' +14.9° to +17.3° (6N HCl) Between' +14.5° to +16.5° (4% HCl)	Between'+14.9° to +17.3°	Between + 14.5 ⁰ to + 16.5 ⁰	Between'+14.5° to +16.0°
7	рН	Between 5.5 and 7.0	Between 5.5 and 7.0	Not mentioned	Between 5.5 and 6.5
8	Loss on drying	NMT 0.2 %	NMT 0.2%	NMT 0.5%	NMT 0.3%
9	Residue on ignition/Sulfated ash	NMT 0.1%	NMT 0.4%	NMT 0.1%	NMT 0.1%
10	Chloride	NMT 0.02 %	NMT 0.05 %	NMT 200 ppm	NMT 0.021%
11	Iron	NMT 0.001%	NMT 30 ppm	NMT 10 ppm	Not mentioned
12	Sulfate Related Compounds/Ninhydrin positive substances	NMT 0.03 % Impurity A: NMT 0.8% Any ninhydrin positive substance: NMT 0.2% Total impurities: NMT 1.0%	NMT 0.03% Individual impurity: NMT 0.5% Total impurities: NMT 2.0%	NMT 300 ppm Impurity A: NMT 0.8% Any ninhydrin positive substance: NMT 0.2% Total impurities: NMT 1.0%	NMT 0.028%
14	Appearance of solution/clarity and colour of solution	Passes Test	Not mentioned	The solution should be clear and not more intensely coloured than reference solution BY6	Sample solution shiuld be clear and colorles
15	Heavy metals	NMT 0.0015%	Not mentioned	Not mentioned	NMT 20 ppm
16	Ammonium	NMT 0.02%	Not mentioned	NMT 0.02%	NMT 0.02%
17	Arsenic	Not mentioned	Not mentioned	Not mentioned	NMT 2 ppm
18	Assay (Dried basis)	Between 98.5% and 101.0%	Between 98.5% and 101.5%	Between 98.5% and 101.0%	NLT 98.5%
	Storage	Keep container tightly closed in a dry and well-ventilated place	Preserve in well-closed containers	Airtight containers	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.	