

" clyzo " - Monograph Compari





AS PER CURRENT USP 2022/EP11/JP18 PanReac AppliChem L-Phenylalanine (Ph. Eur., USP) pure, pharma **Product Name** Issue Date March-23 grade Product Code A1344 Prepared by Sr. Tech Lead CAS NO. 63-91-2 Reviewed by Manager Technical Version no. CLYZO/PAN/A1344/01 Manufacturer Name PanReac AppliChem

Sr. No.	Test	Manufacturer COA	Pharmacopeial Specifications		
		Complies USP, Ph. Eur	USP 2022	EP Version 11.0	JP 18
1	Description	Solid	White, odorless crystals, having a slightly bitter taste	1	White, crystals or crystalline powder. It is odorless or has a faint characteristic odor, and has a slightly bitter taste.
2	Solubility	Sparingly soluble in water	Sparingly soluble in water; very slightly soluble in methanol, in alcohol, and in dilute mineral acids	Sparingly soluble in water, very slightly soluble in ethanol (96%). It dissolves in dilute mineral acids and in dilute solutions of alkali hydroxides	It is freely soluble in formic acid, sparingly soluble in water, and practically insoluble in ethanol (95%).It dissolves in diluute HCl
3	Identification 1	Passes The Test	The Infrared absorption spectrum obtained with sample should be concordant with spectrum obtained with Phenylalanine reference standard/working standard	should be concordant with spectrum obtained with	The Infrared absorption spectrum obtained with sample should be concordant with spectrum obtained with Phenylalanine reference standard/working standard
4	Identification 2	Passes The Test	NA	Should comply with specific optical rotation test	NA
5	Identification 3	Passes The Test	NA	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	NA
6	Identification 4	Passes The Test	NA	A violet-red or violet-brown colour should be formed.	NA
7	Appearance	Passes The Test	NA	Sample solution should be clear and not more intensely coloured than reference solution BY6	Sample solution should be clear and colorless.
8		Between-32.7° and -34.7° (at 25°C) 'Between -35.50 and -33.0° (at 20°C)	Between-32.7° and -34.7°	Between -35.50 and -33.0°	'Between -33.00 and 35.5°
9	Loss on drying	NMT 0.3%	NMT 0.3%	NMT 0.5%	NMT 0.3%
10	Residue on ignition/ Sulphated ash	NMT 0.1%	NMT 0.4%	NMT 0.1%	NMT 0.1%
11	pH	Between 5.4 and 6.0	Between 5.4 and 6.0	NA	Between 5.3 and 6.3
12	Chloride	NMT 0.02%	NMT 0.05%	NMT 200 ppm	NMT 0.021%
13	Sulfate	NMT 0.03%	NMT 0.03%	NMT 300 ppm	NMT 0.028%
14	Iron	NMT 0.001%	NMT 30 ppm	NMT 10 PPM	NA
15	Heavy metals	NMT 0.0015%	NA		NMT 20 ppm
16	Arsenic	Not mentioned	NA		NMT 2ppm
17	Ammonium	NMT 0.02%	NA	NMT 0.02%	NMT 0.02%
18	Related compound/ Ninhydrin positive substances	Any ninhydrin-positive substance: NMT 0.2% for each impurity Total impurities: NMT 0.5% By TLC Maximum individual unknown impurity: NMT 0.5% Total impurities: NMT 2.0%	Maximum individual unknown impurity: NMT 0.5% Total impurities: NMT 2.0%	Any ninhydrin-positive substance: NMT 0.2% for each impurity Total impurities: NMT 0.5%	NMT 0.5%
19	Assay (Dried basis)	Between 98.5% and 101.0%	Between 98.5% and 101.0%	Between 98.5% and 101.0%	NLT 98.5%
	Storage	Storage at room temperature	Preserve in well-closed containers.	Protected from light	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.