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## ˈclyzo " - Monograph Comparison 🧳





	Product Name	Pyridoxine Hydrochloride (Ph. Eur., USP) pure, pharma grade	PanReac AppliChem	Issue Date	March-23
	Product Code	A8093	AppliChom	Prepared by	Sr. Tech Lead
	CAS NO.	58-56-0	Applichem	Reviewed by	Manager Technical
	Manufacturer Name	PanReac AppliChem	ITW Reagents	Version no.	CLYZO/PAN/A8093/01
	Naturer COA Pharmacopeial Specifications				
r. No.	Test	Complies USP, Ph. Eur	USP 2022	EP Version 11.0	JP 18
	Description	Sol;id	White to practically white crystals or crystalline powder. Is stable in air, and is slowly affected by sunlight. Its solutions have a pH of about 3.	White or almost white, crystalline powder.Melting point about 205 °C, with decomposition.	White to pale yellow crystalline powder.It is gradually affected by light. Melting point: about 2060C (with decomposition)
	Solubility	Freely soluble in water	Freely soluble in water; slightly soluble in alcohol; insoluble in ether.	Freely soluble in water, slightly soluble in ethanol (96 per cent)	It is freely soluble in water, slightly soluble in ethanol (99.5), and practically insoluble in acetic anhydride and in acetic acid.
	Identification 1	Passes The Test	Not mentioned	UV absorption spectrum of sample shows maxima at 288-296 nm having specific absorbance between 425 to 445, at 248 to 256 nm 175 to 195 and at 320 to 327 nm 345 to 365	UV absorption spectrum of sample should exhib maxima at the same wavelength as standard solution
	Identification 2	Passes The Test	The Infrared absorption spectrum obtained with sample should be concordant with spectrum obtained with Pyridoxine Hydrochloride reference standard/working standard.	The Infrared absorption spectrum obtained with sample should be concordant with spectrum obtained with Pyridoxine Hydrochloride reference standard/working standard.	The Infrared absorption spectrum obtained with sample should be concordant with spectrum obtained with Pyridoxine Hydrochloride referen standard/working standard.
	Identification 3	Passes The Test	Should comply by a white precipitate formation with silver nitrate which is insoluble in nitric acid but soluble in excess ammonia	Should comply by a white precipitate formation with silver nitrate which is insoluble in nitric acid but soluble in excess ammonia	<ol> <li>Should comply by a white precipitate formati with silver nitrate which is insoluble in nitric acid but soluble in excess ammonia 2. Should evolve odor of chlorine, when mixed with H2SO4, KMn and heated. The gas evolved should turns moistened potassium iodide starch paper blue</li> </ol>
	Identification 4	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
	Chloride	Between 16.9% and 17.6%	Between 16.9% and 17.6% (dried basis)	Not mentioned	Not mentioned
	Appearance of solution/ Clarity and colour 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 colourless
	рН	Between 2.4 and 3.0	Not mentioned	Between 2.4 and 3.0	Between 2.5 and 3.5
)	Related Substances	Impurity B: NMT 0.15% Maximum individual unknown impurity: NMT 0.1% Total impurities: NMT 0.2%	Not mentioned	Impurity B: NMT 0.15% Maximum individual unknown impurity: NMT 0.1% Total impurities: NMT 0.2%	NMT 0.25%
L	Heavy metals	Not mentioned	Not mentioned	Not mentioned	NMT 30 ppm
2	Loss on drying	NMT 0.5%	NMT 0.5%	NMT 0.5	NMT 0.30%
	Sulfated Ash	NMT 0.1%	Not mentioned	NMT 0.1%	NMT 0.1%
5	Residue on Ignition Assay (dried basis)	Not mentioned Between 98.0% and 102.0% (by HPLC)	NMT 0.1% Between 98.0% and 102.0%	Not mentioned Between 99.0% and 101.0%	NMT 0.1% Between 98.0% and 101.0%
	Storage	Between 99.0% and 101.0% (By titrimetry) Storage at room temperature	Preserve in tight, light-resistant containers	Protected from light	Containers—Tight containers. Storage—Light-resistant

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.