



" clyzo " - Monograph Comparison



AS PER CURRENT USP 2022/EP11/JP18

Product Name	di-Potassium Hydrogen Phosphate anhydrous (BP, Ph. Eur.) pure, pharma grade		Issue Date	March-23
Product Code	141512		Prepared by	Sr. Tech Lead
CAS NO.	7758-11-4		Reviewed by	Manager Technical
Manufacturer Name	PanReac AppliChem		Version no.	CLYZO/PAN/141512/01

Sr. No.	Test	Manufacturer COA	Pharmacopeial Specifications		
		<i>Complies BP, Ph. Eur.</i>	<i>USP 2022</i>	<i>EP Version 11.0</i>	<i>JP 18</i>
1	Description	Small white crystals	Colorless or white, somewhat hygroscopic, granular powder. 5% solution pH should be between 8.5 to 9.6.	White or almost white powder or colourless crystals, very hygroscopic.	
2	Solubility	Soluble in water	Freely soluble in water; very slightly soluble in alcohol	Very soluble in water, very slightly soluble in ethanol (96 per cent)	
3	Identification 1	Passes the test	NA	Sample solution should be slightly alkaline having pH between 8.0 and 10.0	
4	Identification 2	Passes the test	1. Should comply by a yellow color precipitate formation with addition of silver nitrate 2. Should comply by a yellow color precipitate formation with addition of ammonium molybdate	Should comply by yellow color development	
5	Identification 3	Passes the test	Should comply by a white crystalline precipitate formation after addition of sodium bitartrate	Should comply by a white crystalline precipitate	
6	pH	Between 8.5 and 9.6	Between 8.5 and 9.6	Not mentioned	
7	Appearance of solution	Passes the test	Not mentioned	Sample solution should be clear and colorless	
8	Reducing substances	Passes the test	Not mentioned	The solution should remain faintly pink	
9	Monopotassium phosphate	A blue color should be produced, which should be changed to yellow (with a greenish tinge) by the addition of NMT 0.4 ml of 1 N HCl.	A blue color should be produced, which should be changed to yellow (with a greenish tinge) by the addition of NMT 0.4 ml of 1 N HCl.	Not mentioned	
10	Chloride	NMT 200 ppm	NMT 0.03%	NMT 200 ppm	
11	Insoluble substances	NMT 0.01%	NMT 0.2%	Not mentioned	
12	Carbonates	Not mentioned	Not more than a few bubbles should be evolved	Not mentioned	
13	Arsenic	Not mentioned	NMT 3 ppm	Not mentioned	
14	Sulfate	NMT 0.05%	NMT 0.1%	NMT 0.1%	
15	Sodium	Not mentioned	Platinum wire imparts should not give a pronounced yellow color to a nonluminous flame	Not mentioned	
16	Fluoride	NMT 0.001%	NMT 0.001%	Not mentioned	
17	Iron	NMT 10 ppm	NMT 30 ppm	NMT 10 ppm	
18	Loss on drying	NMT 1.0%	NMT 1.0%	NMT 2.0%	
19	Assay (dried basis)	Between 98.0% and 100.5%	Between 98.0% and 100.5%	Between 98.0% and 101.0%	
	Elemental Impurities				
	Cd	NMT 0.5 ppm			
	Pb	NMT 0.5 ppm			
	Assay	NMT 1.5 ppm			

Product Not Official in Japanese Pharmacopoeia

	Hg	NMT 1.5 ppm		
	CO	NMT 5 ppm		
	V	NMT 10 ppm		
	Ni	NMT 20 ppm		
	Tl	NMT 0.8 ppm		
	Au	NMT 10 ppm		
	Pd	NMT 10 ppm		
	Ir	NMT 10 ppm		
20	Os	NMT 10 ppm	Not mentioned	Not mentioned
	Rh	NMT 10 ppm		
	Ru	NMT 10 ppm		
	Se	NMT 15 ppm		
	Ag	NMT 15 ppm		
	Pt	NMT 10 ppm		
	Li	NMT 55 ppm		
	Sb	NMT 120 ppm		
	Ba	NMT 140 ppm		
	Mo	NMT 25 ppm		
	Cu	NMT 250 ppm		
	Sn	NMT 600 ppm		
	Cr	NMT 25 ppm		
21	Residual solvent	Passes the test	Not mentioned	Not mentioned
	Storage	Keep in well closed containers	Keep in well closed containers	In an airtight container.

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.