



" clyzo " - Monograph Comparison



AS PER CURRENT USP 2022/EP11/JP18

Product Name	Boric Acid (USP-NF, BP, Ph. Eur.) pure, pharma grade	 ITW Reagents	Issue Date	March-23
Product Code	141015		Prepared by	Sr. Tech Lead
CAS NO.	10043-35-3		Reviewed by	Manager Technical
Manufacturer Name	PanReac AppliChem		Version no.	CLYZO/PAN/141015/01

Sr. No.	Test	Pharmacopeial Specifications			
		Manufacturer COA <i>Complies USP, BP, Ph. Eur</i>	USP 2022	EP Version 11.0	JP 18
1	Description	Solid	Colorless, odorless scales of a somewhat pearly luster, or crystals, or white powder that is slightly unctuous to the touch. Is stable in air.	white or almost white, crystalline powder, colourless, shiny plates greasy to the touch, or white or almost white crystals.	Colorless or white, crystals or crystalline powder. It is odorless, and has a slight characteristic taste.pH of 5% solution is between 3.5 and 4.1
2	Solubility	Soluble in water	Freely soluble in glycerin, in boiling water, and in boiling alcohol; soluble in water and in alcohol.	Soluble in water and in ethanol (96 %), freely soluble in boiling water and in glycerol (85 %).	Freely soluble in warm water, in hot ethanol (95%)and in glycerin, soluble in water and in ethanol (95), and practically insoluble in diethyl ether.
3	Identification 1	Passes The Test	An intense blue color should be produced.	The flame has green border	1. Should burn with green flame 2. Should exhibits a red color, which changes to blue with dropwise addition of ammonia TS
4	Identification 2	Passes The Test	Not mentioned	Sample solution should be acidic	Not mentioned
5	Appearance of solution/clarity and colour of solution	Passes The Test	Not mentioned	Sample solution should be clear and colourless	Sample solution should be clear and colourless
6	Organic Matter	Passes The Test	Not mentioned	It should not darken on progressive heating to dull redness.	Not mentioned
7	Solubility in alcohol	Passes The Test	Sample should dissolve completely in alcohol	The solution should not be more opalescent than reference suspension II and should be colourless	Not mentioned
8	Completeness of solution	Passes The Test	Sample solution should produce a clear solution	Not mentioned	Not mentioned
9	Arsenic	NMT 0.0005%	Not mentioned	Not mentioned	NMT 5 ppm
10	Heavy metals	Between 1.376 and 1.378	Between 1.376 and 1.378	Not mentioned	NMT 10 ppm
11	pH	Between 3.8 and 4.8	Not mentioned	Not mentioned	Not mentioned
12	Lead	NMT 0.001%	Not mentioned	Not mentioned	Not mentioned
13	Magnesium	NMT 0.005%	Not mentioned	Not mentioned	Not mentioned
14	Copper	NMT 0.001%	Not mentioned	Not mentioned	Not mentioned
15	Chloride	NMT 0.002%	Not mentioned	Not mentioned	Not mentioned
16	Iron	NMT 0.001%	Not mentioned	Not mentioned	Not mentioned
17	Phosphate	NMT 0.002%	Not mentioned	Not mentioned	Not mentioned
18	Sulfates	NMT 0.045%	NMT 0.005%	NMT 450 ppm	Not mentioned
19	Residue on ignition	NMT 0.1%	Not mentioned	Not mentioned	Not mentioned
20	Loss on drying	NMT 0.5%	NMT 0.5%	Not mentioned	NMT 0.5%
21	Assay (dried basis)	Between 99.5% and 100.5% (USP) Between 99.0% and 100.5% (EP)	Between 99.5% and 100.5%	Between 99.0% and 100.5%	NLT 99.5%
22	Elemental Impurities		Not mentioned	Not mentioned	Not mentioned
	Cd	NMT 0.5 ppm			
	Pb	NMT 0.5 ppm			
	As	NMT 1.5 ppm			
	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			
	Os	NMT 10 ppm			
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			
23	Residual solvents	Passes The Test	Not mentioned	Not mentioned	Not mentioned
	Storage	Storage at room temperature	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 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.