

" clyzo " - Monograph Comparison





AS PER CURRENT USP 2022/EP11/JP18

Product Name	Maleic Acid (BP, Ph. Eur.) pure, pharma grade
Product Code	141882
CAS NO.	110-16-7
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Issue Date	March-23
Prepared by	Sr. Tech Lead
Reviewed by	Manager Technical
Version no.	CLYZO/PAN/141882/01

	Manufacturer Name	PanReac AppliChem	TW Reagents	Version no.	CLYZO/PAN/141882/01			
Sr. No.	Test	Manufacturer COA	Pharmacopeial Specifications					
31.140.	Test	Complies BP. Ph. Eur	USP 2022	EP Version 11.0	JP 18			
1	Description	Small white crystals	white, crystalline powder.	A white or almost white, crystalline powder	Product Not Official in Japanese			
2	Solubility	Soluble in water	Freely soluble in water and in alcohol; sparingly soluble in ether.	Freely soluble in water and in ethanol (96%)	Pharmacopoeia			
3	Identification 1	Passes The Test	The infrared absorption spectrum obtained with sample should be concordant with spectrum obtained with Maleic Acid, NF reference standard/working standard	The pH of the dilution should be less than 2.0				
4	Identification 2	Passes The Test	In the assay test, the retention time of the maleic acid peak of the Sample solution corresponds to that of the Standard solution.	e In the fumaric acid test, The principal spot in the chromatogram obtained with test solution (b) is similar in position & size to the principal spot in the chromatogram obtained with reference solution (a).				
5	Identification 3	Passes The Test	Not mentioned	A violet-pink colour should be developed				
6	Water	NMT 1.5%	NMT 0.5 %	NMT 2.0%				
7	Appearance of solution	Passes The Test	Not mentioned	Sample solution should be clear and not more intensely coloured than reference solution Y7				
8	Fumaric acid	Passes The Test	NMT 1.0%	NMT 1.5%				
9	Malic acid	Not mentioned	NMT 0.5%	Not mentioned				
10	Iron	NMT 0.0005%	NMT 5 ppm	NMT 5 ppm				
11	Residue on Ignition/Sulphated ash	NMT 0.1%	NMT 0.1%	NMT 0.1%				
12	Matter insoouble in water	Passes The Test	Not mentioned	Not mentioned				
13	Heavy metals	NMT 0.001%	Not mentioned	Not mentioned				
14	Assay (anhydrous basis)	Between 99.0% and 101.0%	Between 98.0% and 102.0%	Between 99.0% and 101.0%				
	Elemental Impurities		Not mentioned	Not mentioned				
	Cd	NMT 0. 5 ppm						
	Pb	NMT 2 ppm						
	As	NMT 1.5 ppm						
	Hg	NMT 1.5 ppm						
	co	NMT 5 ppm						
1	v	NMT 10 ppm						
	Ni	NMT 20 ppm						
'	TI	NMT 0.8 ppm						
	Au	NMT 10 ppm						
	Pd	NMT 10 ppm						
	Ir	NMT 10 ppm						
15	Os	NMT 10 ppm						
	Rh	NMT 10 ppm						
	Ru	NMT 10 ppm						
	Se	NMT 15 ppm						
1	Ag	NMT 15 ppm						
1	Pt	NMT 10 ppm						
	Li	NMT 55 ppm						
	Sb	NMT 120 ppm						
	Ва	NMT 140 ppm						
	Mo	NMT 25 ppm						
	Cu	NMT 250 ppm						
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1	Sn	NMT 600 ppm						
	Cr	NMT 25 ppm	lu a di di					
16	Residual solvents	Passes The Test	Not mentioned	Not mentioned				

	Storage	Storage away from direct light	Preserve in tight glass containers, protected from light. Store at	Store in a glass container, protected from light.		
			room temperature.			
	Note - If you need any additional testing, you may use our Additional Testing Feature on the product page or contact your Clyzo reprensentive.					
	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.					