" clyzo " - Monograph Comparison

AS PER CURRENT USP 2022/EP11/JP18

	Product Name	**Magnesium Oxide light (BP, Ph. Eur.) pure, pharma grade**	PanReac AppliChem ITW Reagents	**Issue Date**	March-23
	Product Code	141276		**Prepared by**	Sr. Tech Lead
	CAS NO.	1309-48-4		**Reviewed by**	Manager Technical
	Manufacturer Name	**PanReac AppliChem**		**Version no.**	CLYZO/PAN/141276/01

Sr. No.	Test	Manufacturer COA	Pharmacopeial Specifications		
		Complies BP, Ph. Eur	*USP 2022*	*EP Version 11.0*	*JP 18*
1	Description	White powder	Very bulky, white powder or relatively dense, white powder or granulated powder	Fine, white or almost white, powder	White, powder or granules. It is odorless. It absorbs moisture and carbon dioxide in air.
2	Solubility	Practically insoluble in water	Soluble in dilute acids; practically insoluble in water; insoluble in alcohol	Practically insoluble in water. It dissolves in dilute acids with at most slight effervescence.	Practically insoluble in water, in ethanol (95%) and in diethyl ether.It dissolves in dilute HCl.
3	Identification 1	Not mentioned	After addition of NH4Cl should yield NMT a slightly hazy precipitate when neutralized with ammonium carbonate TS, but on the subsequent addition of dibasic sodium phosphate TS, a white, crystalline precipitate, which is insoluble in 6 N NH4OH should be formed.	Bulk density should be NMT 0.15 g/ml	1)A white crystalline precipitate should be reproduced by subsequent addition of disodium hydrogenphosphate TS. 2) When excess NaOH TS is added to another portion the precipitate should not dissolve
4	Identification 2	Passes The Test	Not mentioned	A white crystalline precipitate should be formed.	Not mentioned
5	Identification 3	Passes The Test	Not mentioned	Should comply with loss on ignition test	Not mentioned
6	Fluoride	Passes The Test	Not mentioned	Not mentioned	NMT 0.08%
7	Appearance of solution	Passes The Test	Not mentioned	Sample solution should not be more intensely coloured than reference solution B2	Not mentioned
8	Bulk density	Not mentioned	Limit not specified	NMT 0.15 g/ml	Not mentioned
9	Loss on ignition	MT 8.0%	NMT 10.0%	NMT 8.0%	NMT 10.0%
10	Free alkali and soluble salts	NMT 2.0%	NMT 2.0%	NMT 2.0%	NMT 1.0%
11	Carbonate	Not mentioned	Not mentioned	Not mentioned	Almost no effervescence should occurs
12	Acid-Insoluble Substances	NMT 0.1%	NMT 0.1%	NMT 0.1 %	NMT 0.1%
13	Calcium /Calcium oxide	NMT 1.5%	NMT 1.1%	NMT 1.5%	NMT 1.5%
14	Iron	NMT 0.1%	NMT 0.05%	NMT 0.07%	NMT 500 ppm
15	Chlorides	NMT 0.15%	Not mentioned	NMT 0.15%	Not mentioned
16	Sulfates	NMT 1.0%	Not mentioned	NMT 1.0%	Not mentioned
17	Heavy metals	NMT 0.003%	Not mentioned	Not mentioned	NMT 40 ppm
18	Arsenic	Not mentioned	Not mentioned	Not mentioned	NMT 10 ppm
19	Assay (ignited basis)	Between 98.0% and 100.5%	Between 96.0% and 100.5%	Between 98.0% and 100.5%	NLT 96.0%
20	Elemental Impurities		Not mentioned	Not mentioned	Not mentioned
	Cd	NMT 5 ppm			
	Pb	NMT 100 ppm			
	As	NMT 1.5 ppm			
	Hg	NMT 1.5 ppm			
	CO	NMT 100 ppm			
	V	NMT 10 ppm			
	Ni	NMT 20 ppm			
	Tl	NMT 100 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			
21	Residual solvents	Passes The Test	Not mentioned	Not mentioned	Not mentioned
	Storage	Storage at room temperature	Preserve in tight containers	Not mentioned	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.