



" clyzo " - Monograph Comparison



AS PER CURRENT USP 2022/EP11/JP18

Product Name	Agar (USP-NF) pure, pharma grade		Issue Date	March-23
Product Code	141792		Prepared by	Sr. Tech Lead
CAS NO.	9002-18-0		Reviewed by	Manager Technical
Manufacturer Name	PanReac AppliChem		Version no.	CLYZO/PAN/141792/01

Sr. No.	Test	Pharmacopeial Specifications			
		Manufacturer COA Complies USP-NF	USP 2022	EP Version 11.0	JP 18
1	Description	White or slightly yellowish powder	Odorless or has a slight odor, and produces a mucilaginous sensation on the tongue.	Powder or crumpled strips 2-5 mm wide or sometimes flakes, colourless or pale yellow, translucent, somewhat tough and difficult to break, becoming more brittle on drying. Mucilaginous taste.	A white powder, odorless, and is tasteless and mucilaginous. Under a microscope when immersed in olive oil or liquid paraffin, reveals angular granules with striations or nearly spheroidal granules 5 to 60 mm in diameter. It becomes transparent in chloral hydrate TS. Boiling solution should be neutral
2	Solubility	Soluble in boiling water	Soluble in boiling water; insoluble in cold water	Not mentioned	Practically insoluble in organic solvents.
3	Identification 1	Passes The Test	The infrared absorption spectrum obtained with sample should be concordant with spectrum obtained with Agar reference/working standard	Should comply by a dark brownish-violet colour appearance at the interface.	Should comply by a dark blue to reddish purple color development
4	Identification 2	Passes The Test	The gel should not solidify below 80°C	The solution should form a firm, resilient gel, which does not melt below 80°C	The solution should form a firm, resilient gel, which does not melt below 85°C
5	Identification 3	Passes The Test	Iodine TS should color some of the fragments to bluish black, with some areas reddish to violet.	Should comply by microscopical characterisation	Not mentioned
6	Identification 4	Passes The Test	Not mentioned	Should comply by a white turbidity formation	Not mentioned
7	Sulfuric acid	Not mentioned	Not mentioned	Not mentioned	The solution should not be acidic
8	Sulfurous acid and starch	Not mentioned	Not mentioned	Not mentioned	The solution should not be acidic
9	Insoluble matter	NMT 1.0%	NMT 1.0%	NMT 1.0%	NMT 1.0%
10	Swelling index	Not mentioned	Not mentioned	NLT 10 and NLT 10% of labelled value	Not mentioned
11	Gelatin	Passes The Test	No yellow precipitate should be formed	Should not develop turbidity within 10 minutes	Not mentioned
12	Water absorption	Passes The Test	NMT 75 ml	Not mentioned	Volume of filtrate should be NMT 75 ml
13	Foreign organic matter	NMT 1.0%	NMT 1.0%	Not mentioned	Not mentioned
14	Foreign Starch	Passes The Test	The Sample solution should not produce a blue color upon the addition of iodine TS.	Not mentioned	Not mentioned
15	Arsenic	NMT 0.0003%	NMT 3 ppm	Not mentioned	Not mentioned
16	Lead	NMT 0.001%	NMT 10 ppm	Not mentioned	Not mentioned
	Heavy metals	NMT 0.004%	Not mentioned	Not mentioned	Not mentioned
17	Total ash	NMT 6.5%	NMT 6.5%	NMT 5.0%	NMT 4.5%
18	Acid insoluble ash	NMT 0.5%	NMT 0.5%	Not mentioned	NMT 0.5%
19	Water	Not mentioned	NMT 20.0%	Not mentioned	Not mentioned
20	Loss on drying	NMT 20.0%	Not mentioned	NMT 20.0%	NMT 22.0%
21	Microbial contamination	TAMC: NMT 10 ³ CFU/g TYMC: NMT 10 ² CFU/g E.Coli-Should be absent Salmonella: Should be absent	TAMC: NMT 10 ³ CFU/g TYMC: NMT 10 ² CFU/g E.Coli-Should be absent Salmonella: Should be absent	TAMC: NMT 10 ³ CFU/g TYMC: NMT 10 ² CFU/g E.Coli-Should be absent Salmonella: Should be absent	Not mentioned
22	Botanical characteristic	Not mentioned	Usually occurs in bundles consisting of thin, membranous, agglutinated strips or in cut, flaked, or granulated forms. It may be colored weak yellowish orange, yellowish gray to pale yellow, or colorless. It is tough when damp, brittle when dry.	Not mentioned	Not mentioned
23	Elemental Impurities	No metal catalyst used in the	Not mentioned	Not mentioned	Not mentioned
24	Residual solvents	Passes The Test	Not mentioned	Not mentioned	Not mentioned
	Storage	Storage at room temperature	Preserve in well-closed containers	Not mentioned	Preserve in 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.