



CERTIFICATE OF ANALYSIS

Product Name:	Alpha GPC 99% Powder	Country of Origin:	P.R. China
CAS No.:	28319-77-9	Molecular Weight:	257
Molecular Formular:	C ₈ H ₂₀ NO ₆ P	Batch No.:	NP-20220516
Manufacture Date:	2022.05.16	Expired Date:	2024.05.17

Item	Specification	Test Method
Active Ingredieints		
Assay(% ,On Dried Base)	99.0% Min	HPLC
Physical Control		
Appearance	Fine Powder with highly Hygroscopic	Visual
Color	White to Off white	Visual
Odor	Neutral	Organoleptic
Identification	The R value of the sample and STD should be same.	TLC
Specification Rotation[α] ²⁵ _D	-2.4 to -2.95	KPC
Solubility(H ₂ O,10%W/W)	Clear	Visual
Color of Solution	NMT Y7	KPC
Water	3.0% Max	KPC
Ph(10% GPC Solution,w/v)	5.0-7.0	KPC
Chemical Control		
Heavy Metals (As Pb)	NMT10PPM	KPC
Sulfate(SO ₄)	NMT 0.020%	KPC
Iron(Fe)	NMT10PPM	KPC
Chloride(Cl)	NMT 0.020%	KPC
Phosphate Ion(P)	The color of the sample is not darker than that of reference.	KPC
Solvent Residual	Meeting KPC Standard	KPC
Related Substance	Individual: 0.5% Max	KPC
	Total impurities:2.0% Max	KPC
Microbiological Control		
Total Plate Count	10,000cfu/g Max	KPC
Yeast & Mold	300cfu/g Max	KPC
E.Coli	Negative/10g	KPC
Salmonella sp.	Negative/25g	KPC
Staph Aureus	Negative/10g	KPC
Pseudomonas aeruginosa	Negative/25g	KPC

Packing and Storage	
Packing	Pack in paper-drums and a Aluminum foil lined-bags inside. 25Kg/Drum
Storage	Store in a well-closed container away from moisture and direct sunlight.
Shelf Life	2 years if sealed and stored properly.

Conclusion: The test product complies with the requirements of specification.

Analyst: Wu

Checker: Wang

QC Director: Wang Li

