

河南斯诺科进出口贸易有限公司

HENAN SINOTECH IMPORT&EXPORT CORPORATION

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CERTIFICATE OF ANALYSIS

Product Name	Alpha GPC powder		
Molecular Formula	C ₈ H ₂₀ NO ₆ P	CAS#	28319-77-9
Quantity	200kg	Manu. Date	2016-03-28
Batch No.	20160303	Expiry Date	2018-03-27
Items	Specifications	Results	Analysis Method
Appearance	White powder, neutral odor, highly hygroscopic	Conforms	Visual
Identification	Standard solution and test solution same spot, RF	Conforms	TLC
Specific Optical	-2.4° ~ -2.8°	-2.79°	
Heavy metals (as Pb)	≤10ppm	Conforms	AAS
Sulfate (SO ₄)	≤0.02%	Conforms	Colorimetry
Chloride (Cl)	≤0.02%	Conforms	Colorimetry
Phosphate Ion (P)	≤5ppm	Conforms	Colorimetry
Residual solvent(ethanol)	≤1.0%	Conforms	HS-GC
pH	4.5~7.0	5.77	
Related substance	Spot not bigger than standard solution spot	No spot	TLC
Water Content	≤2%	0.20%	KF
Assay (dried basis)	98.0%--102.0%	101.2%	Potentiometric titration
Assay (dried basis)	98.5%--100%	99.3%	HPLC