



CERTIFICATE OF ANALYSIS

Alpha GPC powder 99% (CAS No.28319-77-9)

Batch No.: DR20160726	Quantity: 50kg
Manufacture Date: 2016.07.26	Retest Date: 2018.07.25

TESTS:

Items	Specification	Results
Appearance	White powder, neutral odor, highly hygroscopic	Conforms
Identification by TLC	Standard solution and test solution same spot, RF	Conforms
Specific Optical	-2.4° ~ -2.8°	-2.76°
Heavy metals (as PB) by AAS	≤10ppm	Conforms
Sulfate (SO ₄) by Colorimetry	≤0.02%	Conforms
Chloride (Cl) by Colorimetry	≤0.02%	Conforms
Phosphate Ion (P) by Colorimetry	≤5ppm	Conforms
Residual solvent(ethanol) by HS-GC	≤1.0%	Conforms
pH	4.5~7.0	5.84
Related substance by TLC	Spot not bigger than standard solution spot	No spot
Water Content by KF	≤2%	0.74%
Assay (dried basis) by Potentiometric titration	98.0%--102.0%	101.93%

Conclusion: The results conform with the In-house standard.



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