

# CERTIFICATE OF ANALYSIS



Product: **Alpha GPC 50% Maltodextrin 150mg Capsules**  
 IUPAC Name: *(2R)-2,3-Dihydroxypropyl] 2-trimethylazaniumylethyl phosphate*

Lot Number: GPC5CS1010521UK Capsules per Bottle: 60ct  
 Capsule Batch Number: GPC5CENZ1020VEG Capsule Size/Color/Material: Size 1, clear vegetable capsule  
 Other Ingredients: MCC, Silicon Dioxide

Raw Material Batch No: GPC50250520 Appearance: White, fine, free flowing powder  
 CAS: 28319-77-9 Odor: None  
 Molecular Formula: C<sub>8</sub>H<sub>20</sub>NO<sub>6</sub>P Molecular Weight: 257.22 g/mol



FTIR



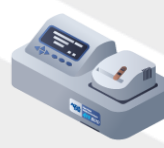
LC-MS



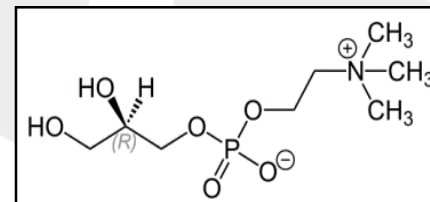
MELTING POINT



ICP-MS



WATER ACTIVITY



Analysis	Specification	Result	Methodology
Identity	Reference Standard	Conforms	FTIR
Assay	47 – 53% (Dry Basis)	47%	LC-MS
Loss on Drying	<5%	3%	Moisture Balance

Heavy Metals	Specification	Result	Methodology
Arsenic	< 0.5 ppm	<0.1250 ppm	ICP-MS
Cadmium	< 0.5 ppm	<0.0500 ppm	
Lead	< 0.5 ppm	<0.0500 ppm	
Mercury	< 0.5 ppm	<0.0125 ppm	

Microbial Proliferation	Specification	Result	Methodology
All	< 0.73	0.22	Water Activity
Aerobic Plate Count	< 10,000 cfu/g	Conforms	FDA BAM
Yeast and Mold Count	< 1,000 cfu/g	Conforms	
Coliforms	< 100 cfu/g	Conforms	
E. coli	Absent / 10g	Conforms	
Staphylococcus	Absent / 10g	Conforms	
Salmonella spp.	Absent / 25g	Conforms	

