

## Certificate Of Analysis

**Product Name:** L- $\alpha$ -Glycerylphosphoryl Choline  
**Batch No.:** GPC20220411  
**Mfg Date:** Apr.11,2022  
**Expiry Date:** Apr.10,2024  
**Non GMO**      **BSE/TSE Free**      **Non Irradiation**      **Allergen Free**

ITEMS	SPECIFICATION	RESULTS	METHODS
<b>Assay Data</b>			
Alpha GPC	99.0%~101.5%	100.70%	Potentiometric HClO <sub>4</sub> Titration
<b>Quality Data</b>			
<b>Appearance</b>	White powder neutral odor very highly hygroscopic	Conforms	Visual
<b>Identification</b>	Conforms to the standard	Conforms	TLC
<b>Specific rotation</b>	-2.4°~ -2.95°	-2.7°	USP<781>
<b>Solubility(H<sub>2</sub>O,10%w/v)</b>	Clear	Conforms	Visual
<b>PH</b>	4.5~6.5	5.9	In-house method
<b>Sulfate</b>	≤0.02%	Conforms	USP<221>
<b>Chloride</b>	≤0.02%	Conforms	USP<221>
<b>Water content</b>	≤2%	1.50%	USP<731>
<b>Heavy Metals</b>	<10ppm	Conforms	AAS
<b>Phosphate Ion (P)</b>	The color of solution should not stronger than the control solution(5ppm)	Conforms	/
<b>Addition Data</b>			
<b>Packing</b>	25kg/drum		
<b>Storage</b>	Store in a cool dry place, avoiding sunlight directly		
<b>Shelf Life</b>	Two Years		

