

## Certificate of Analysis

Date of Testing: 2022-05-19 16:19:15  
Date of Next Testing: 2025-05-18 16:19:15  
Product Name:  **$\alpha$ -D-Glucosamine 1-phosphate**  
CAS Number: 2152-75-2  
Specifications & Purity: 95%  
Lot #: D2228186  
SKU #: **D349721**  
Version: **1**  
Analysis #: **079662**  
Storage Temperature: Store at -20°C, Argon charged

Parameter	Limit Values	Result
Purity(HPLC)	95-100 (%)	99.22000 %
Water by Karl Fischer	0-8.5 (%)	5.50 %
Specific Rotation [a] <sub>20</sub> /D(c=1 in H <sub>2</sub> O)	98.9-108.9 (°)	103.90 °
Appearance (D349721)	off-white to pale yellow solid	Off-White to Pale Yellow Solid
Phosphorus NMR Spectra	Conforms to Structure	Conforms to Structure
Proton NMR spectrum	Conforms to structure	Conforms to Structure



John Su  
QA & QC Manager