

## Certificate of Analysis

Date of Testing: 2024-08-31 15:48:15  
Date of Next Testing: 2028-08-30 15:48:15  
Product Name: **L-O-Phosphoserine**  
CAS Number: 407-41-0  
Specifications & Purity: >98.0%(T)  
Lot #: H2422461  
SKU #: **S161191**  
Version: **0**  
Analysis #: **394415**  
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Purity(Neutralization titration)	98-100 (%)	99.11%
Specific Rotation [a] <sub>D</sub> 20/D(c=1 in 2M HCL)	15.4-16.7 (°)	16.68°
Appearance (S161191)	White to Off-White Powder	White to Off-White Powder
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager