

ALADDIN SCIENTIFIC CORPORATION  
14078 Meridian Parkway, Riverside, CA. 92518

### Certificate of Analysis

Date of Testing: 2024-04-24 16:45:16  
Date of Next Testing: 2028-04-23 16:45:16  
Product Name: **DL-Serine**  
CAS Number: 302-84-1  
Specifications & Purity: ≥98%  
Lot #: D2412191  
SKU #: **S108219**  
Version: **0**  
Analysis #: **328684**  
Storage Temperature: Room temperature, Desiccated

Parameter	Limit Values	Result
Nitrogen by Elemental Analysis	13-13.6 (%)	13.10000 %
Carbon by Elemental Analysis	33.6-35 (%)	34.10000 %
Purity(Nonaqueous Titration)	98-100 (%)	99.98000 %
Appearance (S108219)	White Powder or Crystals	White Powder or Crystals
Infrared spectrum	Conforms to Structure	Conforms to Structure
Solubility in H2O , Clear Colorless ,5 mg/mL, H2O	pass	Pass



John Su  
QA & QC Manager