

Certificate of Analysis

Date of Testing: 2023-09-07 15:42:47

Date of Next Testing: 2027-09-06 15:42:47

Product Name: **L-Serine**

CAS Number: 56-45-1

Specifications & Purity: 99%

Lot #: H2331245

SKU #: **S103483**

Analysis: **273194**

Storage Temperature: Desiccated

Parameter	Limit Values	Result
Carbon by Elemental Analysis	33.6-35 (%)	34.10 %
Nitrogen by Elemental Analysis	13-13.6 (%)	13.01 %
Purity(HPLC)	99-100 (%)	99.60300 %
Specific rotation(20°C, C = 10 in 2 M HCl, EP)	14.4-15.5 (°)	15.41000 °
Appearance (S103483)	White to Off-White Powder	White to Off-White Powder
Infrared spectrum	Conforms to Structure	Conforms to Structure
Solubility in H2O , Colorless and clear,50 mg/mL	pass	Pass



John Su
QA & QC Manager