

Certificate of Analysis

Date of Testing: 2023-08-11 18:17:10

Date of Next Testing: 2027-08-10 18:17:10

Product Name: **D-Serine**

CAS Number: 312-84-5

Specifications & Purity: >98.5%

Lot #: H2309888

SKU #: **S105977**

Analysis: 254756

| Parameter | Limit Values | Result |
|--|---|---|
| Purity(HPLC) | 98.5-100 (%) | 98.51700% |
| Specific Rotation [α] ₂₀ /D(c=10 in HCl(1+5)) | -15.5--14.3 (°) | -14.32° |
| Appearance (S105977) | White to Off-White Solid, Powder, or Crystals | White to Off-White Solid, Powder, or Crystals |
| Proton NMR spectrum | Conforms to Structure | Conforms to Structure |
| Solubility in H ₂ O, clear colorless to faint yellow solution at 50mg/m | pass | Pass |



John Su
QA & QC Manager