

Certificate of Analysis

Date of Testing: 2023-05-18 10:51:53

Date of Next Testing: 2027-05-17 10:51:53

Product Name: **Z-L-Alanine**

CAS Number: 1142-20-7

Specifications & Purity: 98%

Lot #: E2309067

SKU #: **Z108996**

Analysis: 105303

Parameter	Limit Values	Result
Purity (Titration by NaOH)	97.5-102.5 (%)	99.36 %
Specific Rotation [α] ₂₀ /D(c=2 in AcOH)	-16--13 (°)	-14.87°
Melting point	82-87 (°C)	85.73000 °C
Purity(HPLC)	98-100 (%)	98.83200 %
Appearance (Z108996)	White to Off-White Powder or Solid or Chunks	White to Off-White Powder or Solid or Chunks
Proton NMR spectrum	Conforms to structure	Conforms to Structure



John Su
QA & QC Manager