

Certificate of Analysis

Date of Testing: 2023-02-21 11:50:27

Date of Next Testing: 2027-02-20 11:50:27

Product Name: **D-Valine**

CAS Number: 640-68-6

Specifications & Purity: 98%

Lot #: B2317052

SKU #: **V101067**

Analysis: 009926

Parameter	Limit Values	Result
Nitrogen by Elemental Analysis	11.7-12.2 (%)	11.87%
Carbon by Elemental Analysis	50.2-52.3 (%)	51.25%
Purity(HPLC)	98-100 (%)	99.96600%
Specific Rotation [α] ₂₀ /D(c=8 in 6M HCl)	-29--26 (°)	-26.26°
Appearance (V101067)	White Crystals and/or Chunks or Flakes	White Crystals and/or Chunks or Flakes
Infrared spectrum	Conforms to Structure	Conforms to Structure
Solubility in H ₂ O , clear to slightly hazy(50mg/ml)	pass	Pass



John Su
QA & QC Manager