

Certificate of Analysis

Date of Testing: 2023-03-14 17:36:21

Date of Next Testing: 2027-03-13 17:36:21

Product Name: **L-Valine**

CAS Number: 72-18-4

Specifications & Purity: 99%

Lot #: C2308623

SKU #: **V103487**

Analysis: 199319

Parameter	Limit Values	Result
Specific Rotation [a] _D ²⁰ (c=8 in HCl(1+1))	27-28.5 (°)	28.20°
Purity(HPLC)	98-100 (%)	99.20100%
Nitrogen by Elemental Analysis	11.3-12.5 (%)	11.40%
Carbon by Elemental Analysis	50.2-51.7 (%)	50.60%
Appearance (V103487)	white powder	White powder
Infrared spectrum	Conforms to Structure	Conforms to Structure
Solubility in H ₂ O , Colorless ,Clear ,50 mg/mL in H ₂ O	pass	Pass



John Su
QA & QC Manager