

Certificate of Analysis

Date of Testing: 2023-08-03 17:56:38

Date of Next Testing: 2027-08-02 17:56:38

Product Name: **L-Valine**

CAS Number: 72-18-4

Specifications & Purity: 99%

Lot #: H2301771

SKU #: **V103487**

Analysis: 259617

Parameter	Limit Values	Result
Specific Rotation [a] _D ²⁰ /D(c=8 in HCl(1+1)	27-28.5 (°)	28.30°
Purity(HPLC)	98-100 (%)	98.01000%
Nitrogen by Elemental Analysis	11.3-12.5 (%)	11.50%
Carbon by Elemental Analysis	50.2-51.7 (%)	51.20%
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