

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2022-07-19 16:24:31

Date of Next Testing: 2026-07-18 16:24:31

Product Name: **L-Valine**

CAS Number: 72-18-4

Specifications &amp; Purity: 99%

Lot #: G2215771

SKU #: **V103487****Analysis: 114948**

Parameter	Limit Values	Result
Specific Rotation [a] <sub>D</sub> <sup>20</sup> (c=8 in HCl(1+1))	27-28.5 (°)	28.20°
Purity(HPLC)	98-100 (%)	99.96300%
Nitrogen by Elemental Analysis	11.3-12.5 (%)	11.90%
Carbon by Elemental Analysis	50.2-51.7 (%)	50.99%
Appearance (V103487)	white powder	White powder
Infrared spectrum	Conforms to Structure	Conforms to Structure
Solubility in H <sub>2</sub> O , Colorless ,Clear ,50 mg/mL in H <sub>2</sub> O	pass	Pass

John Su  
QA & QC Manager