

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2025-05-07 18:58:42

Date of Next Testing: 2029-05-06 18:58:42

Product Name: **D-Valine**

CAS Number: 640-68-6

Specifications & Purity:  $\geq 98\%$

Lot #: D2530365

SKU #: **V101067**

Version: **0**

Analysis #: **384222**

Storage Temperature: Room temperature

| Parameter                                                                              | Limit Values                                                        | Result                                                              |
|----------------------------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------|
| Purity(HPLC)                                                                           | 98-100 (%)                                                          | 98.54000 %                                                          |
| Nitrogen by Elemental Analysis                                                         | 11.7-12.2 (%)                                                       | 11.71000 %                                                          |
| Carbon by Elemental Analysis                                                           | 50.2-52.3 (%)                                                       | 50.23000 %                                                          |
| Specific Rotation $[\alpha]_{20/D(c=8 \text{ in } -29--26 \text{ } ^\circ)$<br>6M HCl) |                                                                     | -26.96000 °                                                         |
| Appearance (V101067)                                                                   | White to Almost White Powder to Crystals<br>and/or Chunks or Flakes | White to Almost White Powder to Crystals<br>and/or Chunks or Flakes |
| Infrared spectrum                                                                      | Conforms to Structure                                               | Conforms to Structure                                               |
| Solubility in H <sub>2</sub> O , clear to<br>slightly hazy(50mg/ml)                    | pass                                                                | Pass                                                                |



John Su  
QA & QC Manager