

## Certificate of Analysis

Date of Testing: 2022-02-18 11:35:49

Date of Next Testing: 2026-02-17 11:35:49

Product Name: **D-Valine**

CAS Number: 640-68-6

Specifications &amp; Purity: 98%

Lot #: D1813135

SKU #: **V101067****Analysis: 075059**

Parameter	Limit Values	Result
Nitrogen by Elemental Analysis	11.7-12.2 (%)	11.83%
Carbon by Elemental Analysis	50.2-52.3 (%)	50.76%
Purity(HPLC)	98-100 (%)	98.16200%
Specific Rotation [a] <sub>D</sub> 20/D(c=8 in 6M HCl)	-29--26 (°)	-26.03°
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 <sub>2</sub> O , clear to slightly hazy(50mg/ml)	pass	Pass

John Su  
QA & QC Manager