

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-12-08 11:52:23

Date of Next Testing: 2028-12-07 11:52:23

Product Name: **L-Valine**

CAS Number: 72-18-4

Specifications & Purity: UltraBio™, ≥99.5%(NT)

Lot #: K2528044

SKU #: **L755656**

Version: **1**

Analysis #: **504480**

Storage Temperature: Room temperature

Parameter	Limit Values	Result
Purity((NT)	99.5-100.5 (%)	99.83000 %
specific rotation [α]20/D(c=5 in 5M HCl)	26.5-27.5 (°)	26.75400 °
Residue on ignition(Ash)	0-0.05 (%)	0.00000 %
Chloride (Cl-)	0-50 (ppm)	0.00000 ppm
Sulfate(SO42-)	0-50 (ppm)	0.00000 ppm
Aluminium(Al)	0-5 (ppm)	0.00000 ppm
Arsenic(As)	0-0.1 (ppm)	0.00000 ppm
Barium(Ba)	0-5 (ppm)	0.00000 ppm
Bismuth(Bi)	0-5 (ppm)	0.00000 ppm
Calcium(Ca)	0-50 (ppm)	0.00000 ppm
Cadmium(Cd)	0-5 (ppm)	0.00000 ppm
Cobalt(Co)	0-5 (ppm)	0.00000 ppm
Chromium(Cr)	0-5 (ppm)	0.00000 ppm
Copper(Cu)	0-5 (ppm)	0.00000 ppm
Iron(Fe)	0-5 (ppm)	0.00000 ppm
Potassium(K)	0-50 (ppm)	0.00000 ppm
Lithium(Li)	0-5 (ppm)	0.00000 ppm
Magnesium(Mg)	0-5 (ppm)	0.00000 ppm
Manganese(Mn)	0-5 (ppm)	0.00000 ppm
Molybdenum(Mo)	0-5 (ppm)	0.00000 ppm
NH4+	0-150 (ppm)	0.00000 ppm
Sodium(Na)	0-100 (ppm)	0.00000 ppm
Nickel(Ni)	0-5 (ppm)	0.00000 ppm
Lead(Pb)	0-5 (ppm)	0.00000 ppm
Strontium(Sr)	0-5 (ppm)	0.00000 ppm

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Parameter

Zinc(Zn)

Appearance(L755656)

Infrared spectrum

Limit Values

0-5 (ppm)

White powder or crystals

Conforms to Structure

Result

0.00000 ppm

White Powder or Crystals

Conforms to Structure

A handwritten signature in black ink that reads "John Su".

John Su
QA & QC Manager