

Certificate of Analysis

Date of Testing: 2022-07-20 09:34:04

Date of Next Testing: 2026-07-19 09:34:04

Product Name: **L-Valine**

CAS Number: 72-18-4

Specifications & Purity: from non-animal source, meets EP, JP, USP testing specifications, suitable for cell culture, 98.5-101.0%

Lot #: G2215780

SKU #: **V139523**

Analysis: **102027**

Parameter	Limit Values	Result
Sulfate(SO42-)	0-0.02 (%)	0.01 %
PH(5% in Water)(USP)	5.5-7	6.20
Endotoxin Assay	0-1 (EU/mg)	0.00 EU/mg
Iron(Fe)	0-10 (ppm)	5.30 ppm
Specific Rotation [a] ₂₀ /D(c=8 in 6 M HCl / EP in JP)	27.6-28.7 (°)	28.20°
Ammonia (NH ₄)	0-0.02 (%)	0.01 %
Specific Rotation[a] ₂₅ /D(c=8 in 6M HCL/USP)	26.6-28.8 (°)	26.60°
Appearance (V139523)	White powder	White powder
Cell Culture Test	pass	Pass
Identity by IR	Conforms to Structure	Conforms to Structure
Origin	non-animal source	non-animal source
Solubility in H ₂ O , Colorless Clear , 25mg/ml, H ₂ O	pass	Pass



John Su
QA & QC Manager