

Certificate of Analysis

Date of Testing: 2022-07-25 11:52:09
Date of Next Testing: 2026-07-24 11:52:09
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 #: G2221308
SKU #: **V139523**
Analysis: **117644**

Parameter	Limit Values	Result
Sulfate(SO42-)	0-0.02 (%)	0.01 %
PH(5% in Water)(USP)	5.5-7	5.70
Endotoxin Assay	0-1 (EU/mg)	0.25 EU/mg
Iron(Fe)	0-10 (ppm)	5.40 ppm
Specific Rotation[a]25/D(c=8 in 6M HCL/USP)	26.6-28.8 (°)	27.40°
Specific Rotation [a]20/D(c=8 in 6 M HCl / EP in JP)	27.6-28.7 (°)	27.90°
Ammonia (NH4)	0-0.02 (%)	0.00 %
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 H2O , Colorless Clear , 25mg/ml, H2O	pass	Pass



John Su
QA & QC Manager