

Shanghai yuanye Bio-Technology Co., Ltd

465 Changta Road, SongJiang District, Shanghai 201604, China

Certificate of Analysis

Date of Testing: 2026-03-18 16:15:51

Date of Next Testing: 2029-03-17 16:15:51

Product Name: **L-Leucine**

CAS Number: 61-90-5

Specifications & Purity: Animal Free, USP, JP, Ph.Eur., for cell culture, ≥98.5%

Lot #: C2610076

SKU #: **V33807**

Version: **0**

Analysis #: **677193**

Storage Temperature: Protected from light, Room temperature

Parameter	Limit Values	Result
Endotoxin Assay	0-1 (EU/mg)	0.40 EU/mg
specific rotation $[\alpha]_{20/D}(C=4 \text{ in } 6M \text{ HCL})$	14.9-16 (°)	15.28700°
Chloride (Cl ⁻)	0-0.02 (%)	0.01 %
Ammonium (NH ₄)	0-0.02 (%)	0.00000 %
Iron(Fe)	0-10 (ppm)	0.00 ppm
Sulfate(SO ₄ ²⁻)	0-0.03 (%)	0.01 %
Heavy metals	0-10 (ppm)	0.89 ppm
Arsenic(As)	0-1 (ppm)	0.84000 ppm
Loss on drying	0-0.2 (%)	0.09 %
Residue on ignition(Ash)	0-0.1 (%)	0.00000 %
Assay(Nonaqueous Titration anhydrous)	98.5-101 (%)	100.98000 %
Solubility(0.5 g to 10 mL, 1 M HCl)Colorless Clear	pass	Pass
Infrared spectrum	Conforms to Structure	Conforms to Structure
Cell Culture Test	pass	Pass
Origin(Non-Animal Source)	pass	Pass
Appearance(V33807)	White Crystalline Powder	white crystalline powder

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Quality Assurance : Xiaoyong Tan

Quality Control : Yunfei Zou

