

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2026-06-29 16:12:15

Date of Next Testing: 2030-06-28 16:12:15

Product Name: **L-Phenylalanine**

CAS Number: 63-91-2

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

Lot #: F2625424

SKU #: **P110425**

Version: **3**

Analysis #: **717960**

Storage Temperature: Protected from light, Room temperature, Desiccated

Parameter	Limit Values	Result
(As)Arsenic	0-2 (ppm)	0.00000 ppm
specific Rotation[α] ₂₀ /D(c=2 in H ₂ O EP)	-35--33.5 (°)	-34.34300 °
PH test	5.4-6	5.75000
Chloride	0-0.02 (%)	0.00310 %
Sulfate(SO ₄ ²⁻)	0-0.02 (%)	0.00630 %
specific Rotation[α] ₂₅ /D(c=2 in H ₂ O USP)	-34.7--32.7 (°)	-33.32100 °
Heavy metal (as Pb)	0-10 (ppm)	0.00000 ppm
Ignition Residue (as sulfate)	0-0.1 (%)	0.03280 %
Iron(Fe)	0-10 (ppm)	0.00000 ppm
Loss on drying	0-0.3 (%)	0.00000 %
Ammonia (NH ₄)	0-0.02 (%)	0.02000 %
Other amino acids	0-0.5 (%)	0.50000 %
Assay(Titration by HClO ₄)	98.5-101 (%)	100.89000 %
Bacterial endotoxins	0-1000 (EU/g)	11.70000 EU/g
Appearance (P110425)	White crystal powder	White crystal powder
Solubility in hot Water, almost transparency, Clear colorless	pass	Pass
Cell Culture Test	pass	Pass
Infrared spectrum	Conforms to Structure	Conforms to Structure
Ninhydrin-positive substances (other amino acids)	Conforms	Conforms
Origin	non-animal source	non-animal source
Residual solvents	complies	complies



QualityAssurance@aladdinsci.com

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

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

John Su
QA & QC Manager