

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-10-17 17:17:52

Date of Next Testing: 2029-10-16 17:17:52

Product Name: **L-Phenylalanine**

CAS Number: 63-91-2

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

Lot #: J2516092

SKU #: **P110425**

Version: **3**

Analysis #: **089508**

Storage Temperature: Protected from light, Room temperature, Desiccated

Parameter	Limit Values	Result
Bacterial endotoxins	0-25 (EU/g)	12.50000 EU/g
(As)Arsenic	0-1 (ppm)	0.38000 ppm
specific Rotation[a]20/D(c=2 in H2O EP)	-35--33.5 (°)	-34.56700 °
PH test	5.4-6	5.70000
Chloride	0-0.02 (%)	0.01000 %
Sulfate(SO42-)	0-0.02 (%)	0.01000 %
Ammonia (NH4)	0-0.02 (%)	0.01000 %
Other amino acids	0-0.5 (%)	0.29000 %
specific Rotation[a]25/D(c=2 in H2O USP)	-34.7--32.7 (°)	-34.15000 °
Loss on drying	0-0.2 (%)	0.01100 %
Heavy metal (as Pb)	0-10 (ppm)	3.50000 ppm
Ignition Residue (as sulfate)	0-0.1 (%)	0.04900 %
Iron(Fe)	0-10 (ppm)	6.31000 ppm
Assay(Titration by HClO4)	98.5-101 (%)	99.99000 %
Appearance (P110425)	White crystal powder	White crystal powder
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
Solubility,0.5g to 10ml of 1m hyd	Clear colorless	Clear Colorless



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

John Su
QA & QC Manager