

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-09-09 15:31:35

Date of Next Testing: 2029-09-08 15:31:35

Product Name: **L-Arginine**

CAS Number: 74-79-3

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

Lot #: I2504827

SKU #: **A118651**

Version: **1**

Analysis #: **566243**

Storage Temperature: Protected from light, Room temperature, Argon charged

Parameter	Limit Values	Result
Chloride (Cl-)	0-0.05 (%)	0.01250 %
Iron(Fe)	0-30 (ppm)	12.52000 ppm
Sulfate(SO42-)	0-0.03 (%)	0.01000 %
Loss on drying	0-0.5 (%)	0.26000 %
Ignition Residue	0-0.3 (%)	0.09000 %
Purity(as dry basis)	98.5-101 (%)	99.30000 %
Specific Rotation[a]25/D(c=8 in 6M HCL/USP)	26.3-27.7 (°)	27.10000 °
Heavy metals	0-10 (ppm)	8.00000 ppm
Nitrogen by Elemental Analysis	31.5-32.5 (%)	31.80000 %
Endotoxin Assay	0-1 (EU/mg)	0.85000 EU/mg
pH	10.5-12	11.00000
Carbon by Elemental Analysis	40.5-41.5 (%)	40.70000 %
Ammonia (NH4)	0-0.02 (%)	0.02000 %
specific Rotation[a]20/D(c=8 in 6M HCL)/EP	26.9-27.9 (°)	27.10000 °
Appearance (A118651)	White crystalline powder or powder to crystal	White crystalline powder or powder to crystal
Cell Culture Test	pass	Pass
Identity by IR	Conforms to Structure	Conforms to Structure
Ninhydrin-positive substances (other amino acids)	Conforms	Conforms
Origin	non-animal source	non-animal source
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Residual solvents	complies	complies



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Parameter

Limit Values

Result

Solubility, 1g/5ml water

Clear colorless

Clear Colorless

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

John Su
QA & QC Manager