

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing:	2024-03-30 14:00:42
Date of Next Testing:	2028-03-29 14:00:42
Product Name:	<b>L-Arginine</b>
CAS Number:	74-79-3
Specifications & Purity:	from non-animal source, meets EP, USP specifications, suitable for cell culture, 98.5-101.0%
Lot #:	C2421115
SKU #	<b>A118651</b>
<b>Analysis:</b>	<b>331423</b>
Storage Temperature:	Argon charged


Parameter	Limit Values	Result
Chloride (Cl-)	0-0.05 (%)	0.03 %
Iron(Fe)	0-30 (ppm)	1.05 ppm
Sulfate(SO42-)	0-0.03 (%)	0.01 %
Loss on drying	0-0.5 (%)	0.20 %
Ignition Residue	0-0.3 (%)	0.07 %
Purity(as dry basis)	98.5-101 (%)	99.70 %
Specific Rotation[a]25/D(c=8 in 6M HCL/USP)	26.3-27.7 (°)	27.20°
specific Rotation[a]20/D(c=8 in 6M HCL)/EP	26.9-27.9 (°)	27.20°
Nitrogen by Elemental Analysis	31.5-32.5 (%)	31.70 %
Endotoxin Assay	0-1 (EU/mg)	0.80 EU/mg
Carbon by Elemental Analysis	40.5-41.5 (%)	40.70 %
PH	10.5-12	10.70
Ammonia (NH4)	0-0.02 (%)	0.02 %
Heavy metals	0-10 (ppm)	10.00 ppm
Appearance (A118651)	White crystalline powder or powder to crystal	White crystalline powder or powder to crystal
Residual solvents	complies	complies
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

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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