

Certificate of Analysis

Date of Testing: 2025-03-01 15:37:01

Date of Next Testing: 2029-02-28 15:37:01

Product Name: **L-Arginine**

CAS Number: 74-79-3

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

Lot #: B2527271

SKU #: **A118651**

Version: **1**

Analysis #: **474819**

Storage Temperature: Argon charged

Parameter	Limit Values	Result
Chloride (Cl-)	0-0.05 (%)	0.01 %
Iron(Fe)	0-30 (ppm)	1.06 ppm
Sulfate(SO42-)	0-0.03 (%)	0.01 %
Loss on drying	0-0.5 (%)	0.23 %
Ignition Residue	0-0.3 (%)	0.09 %
Purity(as dry basis)	98.5-101 (%)	99.40 %
Heavy metals	0-10 (ppm)	5.00 ppm
Nitrogen by Elemental Analysis	31.5-32.5 (%)	31.60 %
Endotoxin Assay	0-1 (EU/mg)	0.80 EU/mg
PH	10.5-12	10.80
Carbon by Elemental Analysis	40.5-41.5 (%)	40.70 %
Ammonia (NH4)	0-0.02 (%)	0.02 %
specific Rotation[α]20/D(c=8 in 6M HCL)/EP	26.9-27.9 (°)	27.00 °
Specific Rotation[α]25/D(c=8 in 6M HCL/USP)	26.3-27.7 (°)	27.00 °
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



ALADDIN SCIENTIFIC CORPORATION

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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