

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing:	2024-05-30 12:02:36
Date of Next Testing:	2028-05-29 12:02:36
Product Name:	<b>L-Arginine hydrochloride</b>
CAS Number:	1119-34-2
Specifications & Purity:	EP,JP,USP grade, ≥98.5%, for cell culture
Lot #:	E2428030
SKU #	<b>A103485</b>
Version	<b>1</b>
<b>Analysis #:</b>	<b>356756</b>
Storage Temperature:	Desiccated

Parameter	Limit Values	Result
Loss on drying	0-0.2 (%)	0.19 %
Heavy metal (as Pb)	0-10 (ppm)	0.00 ppm
Iron(Fe)	0-10 (ppm)	2.00 ppm
Ignition Residue (as sulfate)	0-0.1 (%)	0.00 %
Endotoxin Assay	0-1 (EU/mg)	0.05 EU/mg
Sulfate(SO42-)	0-0.02 (%)	0.00 %
PH test(1.0g in 10ml water)	4.7-6.2	5.15
(As)Arsenic	0-1 (ppm)	0.00 ppm
Ammonia (NH4)	0-0.02 (%)	0.02 %
Purity(titration with AgNO3)(dry basis)	98.5-100 (%)	99.98 %
Specific Rotation [α] <sub>20</sub> /D(c=8 in 6M HCl)	22.1-22.9 (°)	22.12°
Appearance (A103485)	white crystalline powder	white crystalline powder
Cell Culture Test	pass	Pass
Ninhydrin-positive substances (other amino acids)	Conforms	Conforms
Origin	non-animal source	non-animal source
Residual solvents	complies	complies
Solubility in H <sub>2</sub> O , Colorless , Clear , 100 mg in 1 mL H <sub>2</sub> O	pass	Pass
Infrared spectrum	Conforms to Structure	Conforms to Structure



---

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

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

John Su  
QA & QC Manager