

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2025-06-19 14:18:44

Date of Next Testing: 2029-06-18 14:18:44

Product Name: **L-Arginine hydrochloride**

CAS Number: 1119-34-2

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

Lot #: F2512132

SKU #: **A103485**

Version: **1**

Analysis #: **515695**

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

| Parameter                                                  | Limit Values             | Result                   |
|------------------------------------------------------------|--------------------------|--------------------------|
| Loss on drying                                             | 0-0.2 (%)                | 0.03060 %                |
| Heavy metal (as Pb)                                        | 0-10 (ppm)               | 0.00000 ppm              |
| Iron(Fe)                                                   | 0-10 (ppm)               | 0.00000 ppm              |
| Ignition Residue (as sulfate)                              | 0-0.1 (%)                | 0.03400 %                |
| Sulfate(SO42-)                                             | 0-0.02 (%)               | 0.01400 %                |
| PH test(1.0g in 10ml water)                                | 4.7-6.2                  | 5.80000                  |
| (As)Arsenic                                                | 0-1 (ppm)                | 0.00000 ppm              |
| Ammonia (NH4)                                              | 0-0.02 (%)               | 0.02000 %                |
| Endotoxin Assay                                            | 0-1 (EU/mg)              | 0.02500 EU/mg            |
| Purity(titration with AgNO3)(dry basis)                    | 98.5-100 (%)             | 99.16000 %               |
| Specific Rotation [α] <sub>20</sub> /D(c=8 in 6M HCl)      | 22.1-22.9 (°)            | 22.11000 °               |
| Appearance (A103485)                                       | white crystalline powder | white crystalline powder |
| Solubility in H2O , Colorless , Clear , 100 mg in 1 mL H2O | pass                     | Pass                     |
| 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                 |



[QualityAssurance@aladdinsci.com](mailto:QualityAssurance@aladdinsci.com)

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

John Su  
QA & QC Manager