



LABPRO CHEM

"Essential Laboratory Chemicals For Scientific Research and Experimentation, Ensuring Accuracy And Precision In Every Process."

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CERTIFICATE OF ANALYSIS

Product Name: L-Arginine Monohydrochloride 99% (For Biochemistry)

CAT Number: LA0478

CAS Number: 1119-34-2

Batch Number: 864AM

Date of Manufacture: June 2025

Date of Expiry: May 2030

| Test Parameter | Specification | Result |
|--|--------------------------------|---------------|
| Appearance | White crystalline powder | Complies |
| Purity ($C_6H_{14}N_4O_2 \cdot HCl$) | $\geq 99\%$ | 99.4% |
| Specific Rotation $[\alpha]_D^{20}$ | $+21.0^\circ$ to $+23.5^\circ$ | $+22.2^\circ$ |
| pH (1% solution) | 5.0 – 6.5 | 5.8 |
| Loss on Drying | $\leq 0.5\%$ | 0.2% |
| Residue on Ignition | $\leq 0.1\%$ | 0.03% |
| Heavy Metals (as Pb) | ≤ 10 ppm | 2 ppm |
| Iron (Fe) | ≤ 10 ppm | 2 ppm |
| Chlorides (Cl) | 19.0 – 20.5% | 19.7% |
| Sulphates (SO_4) | $\leq 0.02\%$ | 0.008% |
| Mesh Size | Passes 100 mesh | Complies |

Approved By

(Quality Control Department)

Date: 23/06/2025

For, LABPRO CHEM

AUTH SIGNATORY

Signature: _____

TESTED BY
PREM SINGH

APPROVED BY
SHAKIL AHMED