

Certificate of Analysis

Date of Testing: 2025-02-10 17:55:22

Date of Next Testing: 2029-02-09 17:55:22

Product Name: **L(+)-Arginine hydrochloride**

CAS Number: 1119-34-2

Specifications & Purity: PharmPure™, USP

Lot #: B2506700

SKU #: **L274353**

Version: **2**

Analysis #: **456600**

Storage Temperature: Room temperature

Parameter	Limit Values	Result
Specific Rotation [α] _{20/D} (c=80mg/mL in 6M HCl)	21.4-23.6 (°)	21.42200 °
Ignition Residue (as sulfate)	0-0.1 (%)	0.00 %
Sulfate(SO ₄ ²⁻)	0-0.03 (%)	0.00 %
Heavy metal (as Pb)	0-10 (ppm)	0.00 ppm
Arsenic(As)	0-1 (ppm)	0.00000 ppm
Chromatographic purity(Total impurities)	0-2 (%)	0.00000 %
pH(1.0 g in 10 mL H ₂ O)	4.7-6.2	5.36000
Assay(Perchloric acid titration, calc. on anhydrous substance)	98.5-101.5 (%)	100.64000 %
Loss on drying	0-0.2 (%)	0.00 %
Chromatographic purity(Individual impurities)	0-0.5 (%)	0.26000 %
Chloride (Cl ⁻)	16.5-17.1 (%)	16.50 %
Appearance(L274353)	white crystalline powder	white crystalline powder
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager