

## Certificate of Analysis

Date of Testing: 2024-04-26 13:44:44  
Date of Next Testing: 2028-04-25 13:44:44  
Product Name: **L-Arginine hydrochloride**  
CAS Number: 1119-34-2  
Specifications & Purity: 99%  
Lot #: D2418581  
SKU #: **A103486**  
**Analysis:** **343429**  
Storage Temperature: Desiccated

Parameter	Limit Values	Result
Insoluble matter	0-0.1 (%)	0.03 %
PH(20 °C, 1 M in Water)	5-7	6.52
Ignition Residue (as sulfate)	0-0.1 (%)	0.03 %
Specific Rotation $[\alpha]_{20}^D(c=8 \text{ in } 6M \text{ HCl})$	21.4-23.6 (°)	21.60°
Assay(Nonaqueous Titration)	98.5-101.5 (%)	100.98000 %
Appearance (A103486)	White Powder or Crystals	White Powder or Crystals
Solubility in H <sub>2</sub> O , colorless to pale yellow liquid,clear,1M,20 °C	pass	Pass
$\lambda$ ,1 M in H <sub>2</sub> O	Pass	Pass
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager