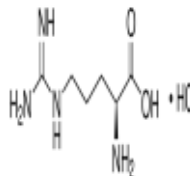


Product Specification

Product Name:
L-Arginine monohydrochloride -

Product Number: A4599
CAS Number: 1119-34-2
Formula: C₆H₁₄N₄O₂ · HCl
Formula Weight: 210.66 g/mol



TEST	Specification
Appearance (Color)	White
Appearance (Form)	Crystalline Powder
Appearance of Solution	Pass
Loss on Drying	≤ 0.20 %
Heavy Metals	≤ 10 ppm
Identification A (EP)	Pass
Identification B (EP)	Pass
Identification E (EP)	Pass
Iron (Fe)	≤ 10 ppm
Chloride Content	16.58 - 17.00 %
Ammonium	≤ 0.02 %
Assay (EP) (dried basis)	98.5 - 101.0 %
Chromatographic Purity	Conforms
Solubility (Turbidity)	Clear
1.0g to 10 mL of water	
Solubility (Color)	Colorless
1.0g to 10 mL of water	
Solubility (Form)	Solution
1.0g to 10 mL of water	
Clarity & Color of Solution	Conforms
Clear, colorless solution	
Cytotoxicity	Pass
Related Substances	Pass
Ninhydrin-Positive Substances	Conforms

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

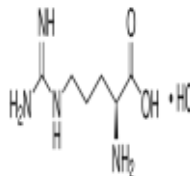


Product Specification

Product Name:
L-Arginine monohydrochloride -

Product Number: **A4599**
CAS Number: 1119-34-2

Formula: $C_6H_{14}N_4O_2 \cdot HCl$
Formula Weight: 210.66 g/mol



TEST	Specification
Specific Rotation c = 8, 6 N HCl, dried basis, 20°C	22.1 - 22.9 °
pH	4.7 - 6.2
Endotoxin Assay	≤ 1 EU/mg
Residual Solvents	Meets Requirements
Residue on Ignition	≤ 0.10 %
Arsenic (As)	≤ 1.0 ppm
Sulfate (SO ₄)	≤ 0.020 %

Specification: PRD.2.ZQ5.1000050661

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