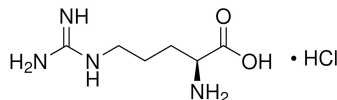


Certificate of Analysis

Product Name : L-Arginine monohydrochloride reagent grade, ≥98% (HPLC), powder
Product Number : A5131-1KG
Batch Number : 0000462633
Source Batch : 0000448382
CAS Number : 1119-34-2
MDL Number : MFCD00064550
Molecular Formula : C₆H₁₄N₄O₂ · HCl
Formula Weight : 210.66 g/mol
Recommended Retest Date : May 2031
Quality Release Date : 30 May 2025



Test	Specification	Result
Appearance (Color)	White	White
Appearance (Form)	Powder	Powder
Solubility (Color)	Colorless	Colorless
Solubility (Turbidity)	Clear	Clear
50 mg/ml, H ₂ O		
Infrared Spectrum	Conforms to Structure	Conforms
Carbon	33.5 - 34.9 %	34.2 %
Nitrogen	26.1 - 27.1 %	26.4 %
Specific Rotation	21.4 - 23.6 °	22.3 °
(c = 8, 6 M HCl, 20 deg C)		
Purity (HPLC)	≥ 98 %	100 %

Jagodige Yasomanee, Supervisor

Quality Assurance

St. Louis, Dekalb

US

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. Purchase must determine the suitability of the product for its particular use. See reverse side of website or packing slip for additional terms and conditions of sale

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