

3050 Spruce Street, Saint Louis, MO 63103, USA

Website: [www.sigmaaldrich.com](http://www.sigmaaldrich.com)Email USA: [techserv@sial.com](mailto:techserv@sial.com)Outside USA: [eurtechserv@sial.com](mailto:eurtechserv@sial.com)

## Product Specification

Product Name:

L-Arginine monohydrochloride – not synthetic, meets EP, JP, USP testing specifications, suitable for cell culture, 98.5–101.0%

Product Number:

A6969

CAS Number:

1119-34-2

MDL:

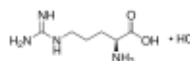
MFCD00064550

Formula:

C<sub>6</sub>H<sub>14</sub>N<sub>4</sub>O<sub>2</sub> · HCl

Formula Weight:

210.66 g/mol



TEST	Specification
Origin	Non-Animal Source
must be non-animal source	
Specific Rotation	22.1 - 22.9 °
20 deg C, C= 8 in 6M HCl	
Chloride Content	16.58 - 17.00 %
Ammonium	Conforms
< or = 0.02%	
Sulfate	Conforms
< or = 0.020%	
Iron (Fe)	Conforms
< or = 10 ppm	
Heavy Metals	Conforms
< or = 10 ppm	
Arsenic (As)	Conforms
< or = 1 ppm	
Loss on Drying	≤ 0.20 %
Residue on ignition (Ash)	≤ 0.10 %
Residual Solvents USP 467	Meets Requirements
Ninhydrin-Positive Substances	Conforms
(Other amino acids)	
pH	4.7 - 6.2
1.0 g in 10 mL H <sub>2</sub> O	
Assay	98.5 - 101.0 %
(Dry Basis)	
Note	-----
Meets USP, EP, and JP testing specifications	

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](http://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.

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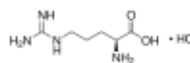
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### TEST

### Specification

Identity by IR

Conforms to Structure

Endotoxin Level

≤ 1 EU/mg

Cell Culture Test

Pass

Appearance (Color)

White

Appearance (Form)

Crystalline Powder

Solubility (Color)

Colorless

Solubility (Turbidity)

Clear

1.0 g to 10 mL, H<sub>2</sub>O

Recommended Retest Period

4 Years

Specification: PRD.1.ZQ5.10000056445

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