

3050 Spruce Street, Saint Louis, MO 63103, USA

Website: www.sigmaaldrich.comEmail USA: techserv@sial.comOutside USA: eurtechserv@sial.com

Product Specification

Product Name:

L-Arginine - from non-animal source, meets EP, USP testing specifications, suitable for cell culture, 98.5-101.0%

Product Number:

A8094

CAS Number:

74-79-3

MDL:

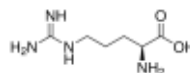
MFCD00002635

Formula:

C₆H₁₄N₄O₂

Formula Weight:

174.20 g/mol



TEST	Specification
Appearance (Color)	White
Appearance (Form)	Crystalline Powder
Solubility (Color)	Colorless
Solubility (Turbidity)	Clear
at 1.0 g to 10 ml of H ₂ O	
Endotoxin Assay	≤ 1 EU/mg
Identity by IR	Conforms to Structure
Origin	Non-Animal Source
Must Be Non-Animal Source	
Specific Rotation	26.9 - 27.9 °
C = 8 in 6 M HCl (20 Deg C/EP)	
Specific Rotation	26.3 - 27.7 °
C = 8 in 6 M HCl (25 Deg C/USP)	
Ammonium	≤ 0.02%
Sulfate	≤ 0.020%
Iron (Fe)	≤ 10 ppm
Chloride	≤ 0.020%
Loss on Drying	≤ 0.50 %
Residue on ignition (Ash)	≤ 0.10 %
Ninhydrin-Positive Substances	Conforms
Other amino acids	
pH	10.5 - 12.0
5% in H ₂ O	
Assay (Dry Basis)	98.5 - 101.0 %

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.

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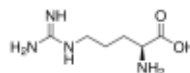
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TEST	Specification
Note	-----
Meets USP and EP testing specifications	
Residual Solvents	Meets Requirements
Recommended Retest Period	-----
4 Years	
Cell Culture Test	Pass

Specification: PRD.3.ZQ5.1000069453

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