

3050 Spruce Street, Saint Louis, MO 63103, USA

Website: www.sigmaaldrich.com

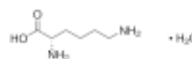
Email USA: techserv@sial.com

Outside USA: eurtechserv@sial.com

Product Specification

Product Name:
L-Lysine monohydrate - BioReagent, cell culture tested, from non-animal source

Product Number: L9037
CAS Number: 39665-12-8
MDL: MFCD00151035
Formula: C₆H₁₄N₂O₂ · H₂O
Formula Weight: 164.20 g/mol



TEST	Specification
Appearance (Color)	White
Appearance (Form)	Crystalline Powder
Solubility (Color)	Colorless
Solubility (Turbidity)	Clear
100 mg/mL, H ₂ O	
Infrared spectrum	Conforms to Structure
Specific Rotation (dry basis)	22.0 - 26.0 °
(C= 2, 6 M HCL, 25 deg C)	
Chloride	Conforms
< or = 0.03%	
Sulfate	Conforms
< or = 0.03%	
Water (by Karl Fischer)	10.0 - 11.5 %
Residue on ignition (Ash)	≤ 0.1 %
Ninhydrin-Positive Substances	Conforms
(Other amino acids)	
Assay	98.5 - 101.5 %
(Dry basis)	
Ammonium	Conforms
< or = 0.02%	
Iron (Fe)	Conforms
< or = 10ppm	
Heavy Metals	Conforms
< or = 10ppm	

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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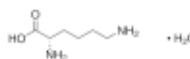
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TEST	Specification
Arsenic (As) < or = 1ppm	Conforms
Endotoxin Assay	≤ 1 EU/mg
Cell Culture Test	Pass
Recommended Retest Period 3 years	-----

Specification: PRD.3.ZQ5.10000021658

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