

3050 Spruce Street, Saint Louis, MO 63103, USA

Website: www.sigmaaldrich.com

Email USA: techserv@sial.com

Outside USA: eurtechserv@sial.com

Certificate of Analysis

Product Name:

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

Product Number: L9037
Batch Number: SLBX1914
Brand: SIGMA
CAS Number: 39665-12-8
MDL Number: MFCD00151035
Formula: C₆H₁₄N₂O₂ · H₂O
Formula Weight: 164.20 g/mol
Quality Release Date: 22 MAR 2018
Recommended Retest Date: MAR 2021



Test	Specification	Result
Appearance (Color)	White	White
Appearance (Form)	Crystalline Powder	Crystalline Powder
Solubility (Color)	Colorless	Colorless
Solubility (Turbidity)	Clear	Clear
100 mg/mL, H ₂ O		
Infrared Spectrum	Conforms to Structure	Conforms
Specific Rotation (dry basis)	22.0 - 26.0 °	24.3 °
(C= 2, 6 M HCL, 25 deg C)		
Chloride	Conforms	Conforms
< or = 0.03%		
Sulfate	Conforms	Conforms
< or = 0.03%		
Water (by Karl Fischer)	10.0 - 11.5 %	11.1 %
Residue on ignition (Ash)	≤ 0.1 %	0.1 %
Ninhydrin-Positive Substances	Conforms	Conforms
(Other amino acids)		
Assay	98.5 - 101.5 %	99.9 %
(Dry basis)		
Ammonium	Conforms	Conforms
< or = 0.02%		
Iron (Fe)	Conforms	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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Test	Specification	Result
Heavy Metals < or = 10ppm	Conforms	Conforms
Arsenic (As) < or = 1ppm	Conforms	Conforms
Endotoxin Assay	≤ 1 EU/mg	< 0 EU/mg
Cell Culture Test	Pass	Pass



Rodney Burbach, Manager
Analytical Services
St. Louis, Missouri US

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