

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-Lysine monohydrochloride - from non-animal source, meets EP, JP, USP testing specifications, suitable for cell culture, 98.5-101.0%

Product Number:

L8662

CAS Number:

657-27-2

MDL:

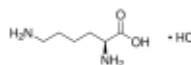
MFCD00064564

Formula:

C₆H₁₄N₂O₂ · HCl

Formula Weight:

182.65 g/mol



TEST	Specification
Appearance (Color)	White
Appearance (Form)	Powder
Solubility (Color)	Colorless
Solubility (Turbidity)	Clear
100 mg/ml, H ₂ O	
Origin	Conforms
Must Be Non-Animal Source	
Specific Rotation	20.8 - 21.5 °
C = 8 in 6 M HCl at 20 Deg C, per EP	
Chloride Content	19.12 - 19.51 %
Ammonium	Pass
< OR = 0.02%	
Iron (Fe)	Pass
< OR = 10 PPM	
Heavy Metals	Pass
< OR = 10 PPM	
Arsenic (As)	Pass
< OR = 1 PPM	
Loss on Drying	≤ 0.40 %
Residue on ignition (Ash)	≤ 0.10 %
Ninhydrin-Positive Substances	Conforms
pH	5.0 - 6.0
Concentration of 10% in water	
Assay (Dry Basis)	98.5 - 101.0 %
Sulfate	Pass
< = 0.020%	

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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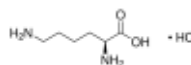
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Formula:

C₆H₁₄N₂O₂ · HCl

Formula Weight:

182.65 g/mol

**TEST****Specification**

Specific Rotation

20.4 - 21.4 °

C = 8 in 6 M HCl at 25 Deg C, per USP

Residual Solvents USP 467

Meets Requirements

Infrared spectrum

Conforms to Structure

Endotoxin Level

≤ 1 EU/mg

Cell Culture Test

Pass

Recommended Retest Period

2 years

Note

Meets USP, EP and JP testing specifications.

Specification: PRD.3.ZQ5.10000009185

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