

3050 Spruce Street, Saint Louis, MO 63103, USA

Website: www.sigmaaldrich.com

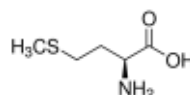
Email USA: techserv@sial.com

Outside USA: eurtechserv@sial.com

Product Specification

Product Name:
L-Methionine - from non-animal source, meets EP, JP, USP testing specifications, suitable for cell culture, 99.0-101.0%

Product Number: M5308
CAS Number: 63-68-3
MDL: MFCD00063097
Formula: C5H11NO2S
Formula Weight: 149.21 g/mol



TEST	Specification
Appearance (Color)	White
Appearance (Form)	Powder
Solubility (Color)	Colorless
Solubility (Turbidity)	Clear
at 2.5 g to 100 mL of water	
Cell Culture Test	Pass
Endotoxin Assay	≤ 1.0 EU/mg
Origin	Non-Animal Source
Identification	Conforms
Specific Rotation	23.0 - 24.0 °
EP/JP: C = 2 in 6 M HCl at 20 deg C	
Specific Rotation	22.4 - 24.7 °
USP: C = 2 in 6 M HCl at 25 deg C	
Ammonium	≤ 0.02%
Sulfate	≤ 0.020%
Iron (Fe)	≤ 10 ppm
Heavy Metals	≤ 10 ppm
Arsenic (As)	≤ 2 ppm
Loss on Drying	≤ 0.20 %
Residue on Ignition	≤ 0.10 %
Related Substances	Conforms
Assay (Dry Basis)	99.0 - 101.0 %
Chloride	≤ 0.020%
Residual Solvents	Meets Requirements

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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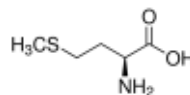
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C₅H₁₁NO₂S

Formula Weight:

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TEST	Specification
pH USP: 1%, H ₂ O, 25 deg C	5.6 - 6.1
pH EP/JP: 2.5%, H ₂ O, 20 deg C	5.5 - 6.2
Recommended Retest Period 4 years	-----
Note Meets USP, EP, and JP testing specifications	-----

Specification: PRD.3.ZQ5.10000009246

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