

3050 Spruce Street, Saint Louis, MO 63103, USA

Website: www.sigmaaldrich.com

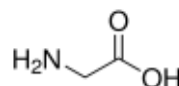
Email USA: techserv@sial.com

Outside USA: eurtechserv@sial.com

Product Specification

Product Name:
Glycine - BioUltra, for molecular biology, ≥99.0% (NT)

Product Number: 50046
CAS Number: 56-40-6
MDL: MFCD00008131
Formula: C₂H₅NO₂
Formula Weight: 75.07 g/mol



TEST	Specification
Appearance (Color)	White
Appearance (Form)	Powder or Crystals
Solubility (Color)	Colorless
Solubility (Turbidity)	Clear
1 M, 1 M HCl	
Loss on Drying	≤ 0.05 %
(HV, 20-26 deg C)	
Residue on ignition (Ash)	≤ 0.05 %
SO ₄ , 900 deg C	
Insoluble Matter	Pass
Residue (Filter test)	
Sulfate (SO ₄)	≤ 100 mg/kg
Chloride (Cl)	≤ 50 mg/kg
Aluminum (ICP)	≤ 5 mg/kg
Bismuth (ICP)	≤ 5 mg/kg
Lead (ICP)	≤ 5 mg/kg
Arsenic Traces (MHS-AAS)	≤ 0.1 mg/kg
Barium (ICP)	≤ 5 mg/kg
Cadmium (ICP)	≤ 5 mg/kg
Cobalt (ICP)	≤ 5 mg/kg
Copper (ICP)	≤ 5 mg/kg
Strontium (ICP)	≤ 5 mg/kg
Zinc (ICP)	≤ 5 mg/kg

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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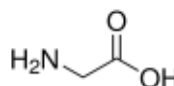
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TEST	Specification
Potassium (ICP)	≤ 50 mg/kg
Calcium (ICP)	≤ 10 mg/kg
Chromium (ICP)	≤ 5 mg/kg
Magnesium (ICP)	≤ 5 mg/kg
Manganese (ICP)	≤ 5 mg/kg
Iron (ICP)	≤ 5 mg/kg
Lithium (ICP)	≤ 5 mg/kg
Molybdenum (ICP)	≤ 5 mg/kg
Nickel (ICP)	≤ 5 mg/kg
Sodium (ICP)	≤ 100 mg/kg
A260 UV Absorption (c = 1 M in 1 M HCl)	≤ 0.05
A280 UV Absorption (c = 1 M in 1 M HCl)	≤ 0.05
Ammonium (mg/kg)	≤ 200 ppm
HClO ₄ Titration	99.0 - 102.0 %
Recommended Retest Period 4 years	-----
DNAse and RNAse	None Detected
Protease Detection	None Detected
Phosphatase Detection	None Detected

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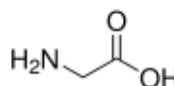
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Formula Weight:

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**TEST****Specification**

Specification: PRD.0.ZQ5.1000085670

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