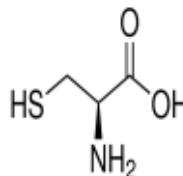


Product Specification

Product Name:
L-Cysteine -

Product Number: C5360
CAS Number: 52-90-4
MDL: MFCD00064306
Formula: C₃H₇NO₂S
Formula Weight: 121.16 g/mol



TEST

Specification

Not Derived From Animal Origin	Confirmed
Appearance (Color)	White
Appearance (Form)	Crystalline Powder
Solubility (Turbidity)	Clear
0.5 g in 20 mL water	
Solubility (Color)	Colorless
0.5 g in 20 mL water	
Solubility (Form)	Solution
0.5 g in 20 mL water	
pH	4.5 - 5.5
1.25 g in 50 mL water	
Endotoxin Assay	≤ 1 EU/mg
Cytotoxicity	Pass
Infrared Spectrum	Conforms to Reference Spectrum
Specific Rotation	8.3 - 9.5 °
C = 8, 1N HCL/20°C	
Residue on Ignition	≤ 0.05 %
Ninhydrin-Positive Substances	Conforms
Heavy Metals	≤ 10 ppm
Chloride	≤ 0.040 %
Ammonium	≤ 0.02 %
Sulfate (SO ₄)	≤ 0.028 %
Iron (Fe)	≤ 10 ppm
Arsenic (As)	≤ 1.0 ppm

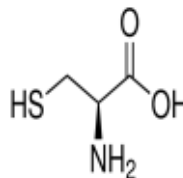
Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser 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.



Product Specification

Product Name:
L-Cysteine -

Product Number: C5360
CAS Number: 52-90-4
MDL: MFCD00064306
Formula: C₃H₇NO₂S
Formula Weight: 121.16 g/mol



TEST	Specification
------	---------------

Loss on Drying	≤ 0.50 %
TLC - Single Spot 4 Acetonitrile: 1 Acetic Acid: 1 Water Normal Phase (Silica on Aluminum) Ninhydrin Sample Prep: ~200mg/20ml water	Conforms
Assay (Dry Basis)	98.0 - 101.0 %

Specification: PRD.1.ZQ5.10000044623

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.

