

## Product Specification

Product Name:  
L-Cystine -

Product Number:

**C5735**

CAS Number:

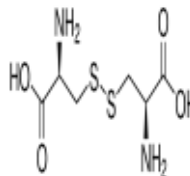
56-89-3

Formula:

C<sub>6</sub>H<sub>12</sub>N<sub>2</sub>O<sub>4</sub>S<sub>2</sub>

Formula Weight:

240.30 g/mol



TEST	Specification
Appearance (Color)	White
Appearance (Form)	Powder
Appearance of Solution	Pass
Infrared Spectrum	Conforms to Reference
pH	5.0 - 6.5
0.02g in 50mL(aqueous)	
pH can be taken if the sample is not fully dissolved and will be noted if the sample does not fully dissolve.	
Chloride (Cl)	≤ 0.020 %
Sulfate (SO <sub>4</sub> )	≤ 0.020 %
Ammonium	≤ 0.02 %
Specific Rotation	-224 - -218 °
C=2, 1M HCl, dried basis, 20°C	
Ninhydrin-Positive Substances	Conforms
Iron (Fe)	≤ 5 ppm
Arsenic (As)	≤ 1 ppm
Lead (Pb)	≤ 5 ppm
Assay	98.5 - 101.0 %
Loss on Drying	≤ 0.20 %
Residue on Ignition	≤ 0.10 %
Endotoxin	≤ 10 EU/g
Cytotoxicity	Pass
Appearance (Color)	White
Appearance (Form)	Powder
Appearance of Solution	Pass
Infrared Spectrum	Conforms to Reference

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](http://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-Cystine -

Product Number:

**C5735**

CAS Number:

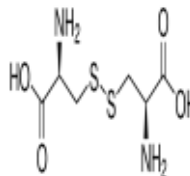
56-89-3

Formula:

C<sub>6</sub>H<sub>12</sub>N<sub>2</sub>O<sub>4</sub>S<sub>2</sub>

Formula Weight:

240.30 g/mol



TEST	Specification
pH 0.02g in 50mL(aqueous)	5.0 - 6.5
Chloride (Cl)	≤ 0.020 %
Sulfate (SO <sub>4</sub> )	≤ 0.020 %
Ammonium	≤ 0.02 %
Specific Rotation C=2, 1M HCl, dried basis, 20°C	-224 - -218 °
Ninhydrin-Positive Substances	Conforms
Iron (Fe)	≤ 5 ppm
Arsenic (As)	≤ 1 ppm
Lead (Pb)	≤ 5 ppm
Assay	98.5 - 101.0 %
Loss on Drying	≤ 0.20 %
Residue on Ignition	≤ 0.10 %

Specification: PRD.3.ZQ5.10000091397

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](http://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.

