

**MP Biomedicals, LLC**

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Certificate of Analysis

Product Description: L-Cysteine Free Base, cell culture reagent

Catalog Number: 194646

Lot: 1780B

Formula: $C_3H_7NO_2S$

CAS #: 52-90-4

Physical Description: White Crystalline Powder

Formula Weight: 121.16

Storage: Room Temperature, desiccate, store under nitrogen

Test	Specification	Result
Identity Test	Passes	Passes
FTIR	Conforms to Standard	Conforms to Standard
Melting Point	200 - 235°C (dec)	224.3 - 230°C (dec)
Optical Rotation (c=2, 1N HCl)	7 - 13°	+8.87°
pH (5% aq soln)	4 - 8	4.00

06/16/2000 - Joseph Dietz, Ph.D.

MP Biomedicals, LLC.

Technical Director

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<http://www.mpbio.com>

Online Ordering, MSDSs, certificates of analysis and data sheets now available on our web site

Technical Service: 1-800-279-5490 (440-337-1200) Customer Service: 1-800-854-0530 (440-337-1200)