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Certificate of Analysis

Product Description: L-Cysteine, Free Base
Catalog Number: 101444
Lot: YC0531

Formula: C₃H₇NO₂S
CAS #: 52-90-4
Physical Description: White Crystalline Powder

Formula Weight: 121.16
Storage: 15 - 30°C, desiccate, store under nitrogen

Test	Specification	Result
Identity Test	Passes	Passes
FTIR	Conforms to Standard	Conforms to Standard
Optical Rotation	+7° to +13° (c=2, 1N HCl)	+8.5°
pH	4 - 8 (5% aq soln)	5

Transmittance: 99.7%
Chloride: <0.04%
Ammonium: <0.02%
Sulfate: <0.03%
Iron: <10 ppm
Heavy Metals: <10 ppm
Arsenic: <1 ppm
Other amino acids: <1.0%
Loss on drying: 0.12%
Residue on ignition: <0.1%
Assay: 99.6%
Melting Point: 213-235°C
Recommended Retest Date (MM/DD/YYYY): 06/05/2023

06/27/2022 - Fengqi An
MP Biomedicals, LLC.
Life Science QC Supervisor

This is an electronically generated document
<mailto:biotech@mpbio.com>
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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)