



MP Biomedicals, LLC

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Certificate of Analysis

Product Description: N-Acetyl-L-cysteine, cell culture reagent_
Catalog Number: 194603_
Lot: R27581_

Formula: C₅H₉NO₃S

CAS #: 616-91-1

Physical Description: White Powder

Formula Weight: 163.2

Storage: +4°C

Test	Specification	Result
Identity Test	Passes	Passes
Purity	≥96%	100.4%
FTIR	Conforms to Standard	Conforms to Standard
Melting Point	105 - 115°C	107.1 - 107.7 °C
Optical Rotation	+21.0° to +27.0° (c=5, 1M PBS)	+25.0°
Moisture	≤1.0%	0.6%
pH (1% aq soln)	2.0 - 2.8	2.4

Residue on Ignition: 0.25%

Heavy Metals: 0.0006%

Organic Volatile Impurities: Conforms

Residual Solvents: Conforms

Particle Size: 10 Mesh

Christina Marotta

12/13/2010 - Christina Marotta

MP Biomedicals, LLC.

Technical Director

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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)