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Certificate of Analysis

Product Description: L-Cysteine Hydrochloride Monohydrate
Catalog Number: 101446
Lot: Q4167**Formula:** C₃H₇NO₂S·HCl·H₂O
CAS #: 7048-04-6
Physical Description: White Powder**Formula Weight:** 175.64
Storage: Room Temperature, desiccate, protect from light, store under nitrogen

Test	Specification	Result
Identity Test	Passes	Passes
FTIR	Conforms to Standard	Conforms to Standard
Optical Rotation (c = 20, 1N HCl)	+2.0° to +7.5°	+5.9°
Moisture (LOD)	8 - 12%	11.1%

Residue on Ignition: 0.13%

Sulfate: <0.03%

Iron: <0.003%

Heavy Metals: <0.0015%

Chromatographic Purity: Meets Requirement

Organic Volatile Impurities: Meets Requirement

Assay: 99.64%

Recommended Retest Date: 04/25/2017



05/18/2016 - John Huang, PhD
MP Biomedicals, LLC.
Quality Control Manager

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