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## Certificate of Analysis

**Product Description:** Glutathione Reduced\_  
**Catalog Number:** 101814\_  
**Lot:** M1235\_

**Formula:** C<sub>10</sub>H<sub>17</sub>N<sub>3</sub>O<sub>6</sub>S

**CAS #:** 70-18-8

**Physical Description:** White Powder

**Formula Weight:** 307.3

**Storage:** +4°C, store under nitrogen

Test	Specification	Result
Identity Test A	Passes	Passes
Identity Test B	Passes	Passes
Purity	≥98%	99.4% (dry basis)
FTIR	Conforms to Standard	Conforms to Standard
Optical Rotation (c=2, water)	-16° ± 5°	-16.3°
pH (3.5% aq soln)	Acidic	Acidic
Solubility (3.5% aq soln)	Clear, Colorless Solution	Clear, Colorless Solution

State of Solution: #98%

Ammonium: #0.020%

Sulfate: #0.048%

Iron: #10 ppm

Heavy Metals: #10 ppm

Arsenic: #1 ppm

Related Substances (HPLC): #2.0%

Loss on Drying: 0.19%

Residue on Ignition: 0.01%

*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)