

## **Certificate of Analysis**

**Product Name:** L-Glutathione, Reduced

**Cat #:** G-155

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

Lot #: Lot Specific

Retest Date<sup>†</sup>: Lot Specific

**Storage:** Store at 4°C. Protect from light.

Test	Specs	Results
Appearance	White Crystalline Powder	Complies
Identification	Positive	Complies
Appearance of solution	Clear And Colorless	Complies
Loss on drying	≤0.5%	Complies
Ammonium (NH4)	≤200 ppm	Complies
Assay	98.0-101.0%	Complies
Specific Optical Rotation [alpha]D	-15.5° to -17.5°	Complies
Solubility	Freely soluble in water, very slightly soluble in ethanol	Complies
Sulfates	≤300 ppm	Complies
Heavy Metals Total	≤10 ppm	Complies
- Arsenic	≤1.0 ppm	Complies
- Iron (Fe)	≤10 ppm	Complies
Chlorides	≤200 ppm	Complies
Related Substances		
- Total	≤2.0%	Complies
- GSSG	≤1.5%	Complies

<sup>\*</sup> GOLD BIOTECHNOLOGY, INC. provides this Certificate of Analysis in good faith. No representation is made as to the accuracy or comprehensiveness of the data and GOLD BIOTECHNOLOGY, INC. shall not be liable for any errors in the data. No representation is made as to the fitness of the data or of the materials for any particular use. User shall exercise its own raw material quality control, including analysis of the material, and shall independently determine the fitness of the data and the material for any use. No representation or warranty is made as to the effectiveness of the material or results obtained using the material, including damages or injury. GOLD BIOTECHNOLOGY, INC. liability is limited to the cost of the material. User assumes all responsibility for compliance with all laws and regulations implicated by use of this material.

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<sup>†</sup> If provided, the Certificate of Analysis (COA) retest date corresponds to the recommended storage conditions provided on the COA. If no retest date is shown, the shelf-life for products is 2 years after purchase when stored according to COA recommendations. Retest dates are not rigid, and often only serve an informational purpose. COA retest dates are supplied by the manufacturer; however, GoldBio product labels may contain different storage recommendations to extend the life of the product beyond the manufacturer retest date or 2 years from purchase.



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Test	Specs	Results
Total Plate Count	≤1000 cfu/g	Complies
- Yeasts/Molds	≤100 cfu/g	Complies
- E coli / 10 g	Negative	Complies
- Coliforms	≤100 cfu/g	Complies
- Salmonella / 10 g	Negative	Complies
- Stapphylococcus aureus / 10 g	Negative	Complies
Residue on Ignition	≤0.1%	Complies

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