

## **Certificate of Analysis**

Product Name: L-Glutathione Reduced

CAS# 70-18-8 Molecular Formula:  $C_{10}H_{17}N_3O_6S$  Molecular Weight: 307.32

Starting Material(s):

Residual Solvents:

L-Cysteine, L-Cystine
Water & Ethanol

Country of Origin:

Batch Number:

Waries

Manufacture Date:

Retest Date:

Varies

Varies

## Test Results Obtained by PureBulk

Test Nesalts Obtained by Furebalk			
ITEMS	SPECIFICATIONS	RESULTS	
L-Glutathione Re <mark>duced</mark> (Ti <mark>tra</mark> tion) (USP)	98-101%	100.57%	
Optical Rotation (USP)	-15.5~-17.5°	-15.74°	
Loss on Drying (LOD) (USP<731>)	≤0.5%	0.45%	
Arsenic	≤1 ppm	0.0278 ppm	
Cadmium	≤1 ppm	0.00724 ppm	
Lead	≤1 ppm	<0.00500 ppm	
Mercury	≤ <mark>1</mark> ppm	0.0358 ppm	
Aerobic Plate Count	≤1000 cfu/g	<20 cfu/g	
Yeast & Mold	≤100 cfu/g	<20 cfu/g	
Coliforms	≤100 cfu/g	<20 cfu/g	
E. Coli	Negative	Absent	
Salmonella	Negative	Absent	
Staph aureus	Negative	Absent	
Pseudo. aeruginosa	Negative	Absent	
Conclusion (PureBulk):	This product conforms to standards		

The following information is an indirect translation of information provided from the Manufacturer's Certificate of Analysis, and should not be used solely as an instrument for strict quality control.

ITEMS	SPECIFICATIONS	RESULTS	
Appearance	White or almost white crystalline powder	White crystalline powder	
Identification IR	Conforms to the Reference spectrum	Conforms	
Appearance of Solution	Clear and Colorless	Conforms	
Chlorides	≤200 ppm	Conforms	
Sulfates	≤300 ppm	Conforms	
Ammonium (NH4)	≤200 ppm	Conforms	
Iron (Fe)	≤10 ppm	Conforms	
Plumbum	≤3 ppm	Conforms	
Sulfated Ash	≤0.1%	0.063%	
Bulk Density	≥0.2 g/ml	0.3516 g/ml	
Tapped Density	≥0.4 g/ml	0.5179 g/ml	
Related Substances	Total: ≤2.0%	1.35%	
	GSSG: ≤1.5%	0.66%	
Conclusion (Manufacturer):	This product conforms to enterprise stand	This product conforms to enterprise standards	

Additional Information: No Animal Origin No Engineered Nanomaterials Non-Allergen

BSE/TSE Free | Gluten-Free | Glyphosate Free | GRAS | Melamine

Toll Free: 1-888-280-0050

Fax: 1-541-393-9005

Free | Vegan

GMO Statement: Non-GMO

Sterilization:Non-Irradiated | Non-EtOComposition:L-Glutathione Reduced 98%

Impurities 2%

Storage Conditions: Keep in sealed container under 25°C.

Keep away from strong light, heat and moisture.

Purebulk.Inc verifies that the information contained herein is true and correct to the best of our knowledge.

Verified By: Candace Gibson / Ann Foote

( This document was produced electronically and is valid without signature. )