



## Certificate of Analysis

### L-(+)-Ergothioneine

**Catalog Number:** ER1003  
**Lot Number:** 0314801  
**Synonym(s):** (S)- $\alpha$ -Carboxy-N,N,N-trimethyl-2-mercapto-1H-imidazole-4-ethanaminium inner salt, Thioneine  
**CAS Number:** 497-30-3  
**Molecular Formula:**  $C_9H_{15}N_3O_2S$   
**Molecular Weight:** 229.30  
**Storage:**  $\leq -20^{\circ}C$   
**Date of Manufacture:** January 29, 2018  
**Retest Date:** January 28, 2020

Test	Specification	Result
Appearance	White crystalline solid	Conforms
Purity (HPLC)	$\geq 98.0\%$	98.7%
Identification (NMR)	To match standard spectra	Conforms
Optical Rotation	$+110^{\circ}$ to $+125^{\circ}$	$+118.8^{\circ}$
Solubility	Water (50mg/mL), Acetone, EtOH (hot), Methanol	Conforms

Approved by:

Date: June 13, 2018

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