



上海麦角硫因生物科技集团有限公司

SHANGHAI EGT SYN BIO GROUP CO., LTD.

Certificate Of Analysis

Product Name:	L-Ergothioneine (Dr. Ergo®)		
CAS Number:	497-30-3	Reference:	In-house
Batch Number:	YGAF24062801	Batch Quantity:	27kg
Date of Production:	Jun 28, 2024	Date of Expiration:	Jun 27, 2026
Types:	<input checked="" type="checkbox"/> Manufacturer	<input type="checkbox"/> Traders	<input type="checkbox"/> Other

Items	Specifications	Test Results	Methods
Purity	≥99.9%	99.98%	HPLC (External Standard Method)

Physical & Chemical Control:

Appearance	White crystal	Conform	Visual observation
Smell	Characteristic odor	Conform	Nose smells
pH (50mg/mL, 20°C)	6.0-7.5	6.24	pH meter
Melting Point (Decompose)	270-271°C	270.5°C	Melting point detector
Optical Rotation	$[\alpha]_D^{25} \geq (+)122^\circ$ (c=1, H ₂ O)	+124.3°	Polarimeter (c=1, H ₂ O)
Crystallite size	100% pass rate for 50 mesh	Conform	Sieve
Density	0.55-0.75g/mL	Conform	Bulk density meter
Loss on Drying	<0.5%	0.15%	TGA
Total Residual Solvents	≤200 ppm	140.78 ppm	GC

Heavy Metals Control:

Arsenic	≤1 ppm	Conform	ICP
Lead	≤1 ppm	Conform	ICP
Mercury	≤0.2 ppm	Conform	ICP
Cadmium	≤0.3 ppm	Conform	ICP
Total Heavy Metals	≤10 ppm	Conform	ICP

Microbiological Control:

E. coli	Negative/25g	Conform	USP<62>
Staphylococcus aureus Rosenbach	Negative/25g	Conform	USP<62>
Salmonella	Negative/25g	Conform	USP<62>
P. aeruginosa	Negative/25g	Conform	USP<62>
Total Coliform	<100 CFU/g	Conform	AOAC
Total Yeast and Mold Count	≤100 CFU/g	Conform	USP<61>
Total Viable Aerobic Count	≤1000 CFU/g	Conform	USP<61>

Packing: Sterile bag packaging, wrapped in aluminum foil bags.

Storage: Sealed and stored in cool and dry place, protect from sunlight and moisture.

Analyst (QC): *Yanhong Zhang*

Approver (QA): *Yilun Li*

Date: *Jul 22, 2024*

Date: *Jul 22, 2024*

★ Certified by GRAS, and a lot of efficacy tests data ★

ISO9001

ISO14001

ISO45001

ISO22000

GMP

VEGAN

HALAL

KOSHER

