



Certificate of Analysis

Product Name:	Ergothioneine		
CAS Number	497-30-3	Reference:	In-house
Batch Number	PRS231230-1	Batch Quantity	15kg
Date of Production	Dec 30,2023	Date of Expiration	Dec 29,2025
Items	Specifications	Test Results	Methods
Purity	≥99.9%	99.92%	HPLC(Internal 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	6.38	pH meter
Melting Point (Decompose)	270-271°C	270.4°C	Melting point detector
Optical Rotation	$[\alpha]_D^{25} \geq (+)122^\circ (c=1, H_2O)$	+124.9°	Polarimeter (c=1, H ₂ O)
Crystallite size	100%pass rate for 50 mesh	Conform	Sieve
Density	0.55-0.75g/mL	0.66	Bulk density meter
Loss on Drying	<0.5%	0.07%	TGA
Total Residual Solvents	≤200 ppm	50.06 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	USP<62>
Total Yeast and Mold Count	≤100 CFU/g	Conform	
Total Viable Aerobic Count	≤1000 CFU/g	Conform	
Packing:1kg sterile bag packaging,wrapped in aluminum foil bags			
Storage:Sealed and stored in cool and dry place,protect from sunlight and moisture			
Analyst(QC):Lin Chuan		Approver (QA):Vig Long	
Date:2023.12.30		Date:2023.12.30	

