



西安绿泉科技有限公司

Xi'an Green Spring Technology Co., Ltd.

Certificate Of Analysis

Product Name:	L-(+)-Ergothioneine		
CAS Number:	497-30-3	Reference:	In-house
Batch Number:	YGAF23032201	Batch Quantity:	10kg
Date of Production:	Mar 22, 2023	Date of Expiration:	Mar 21, 2025
Items	Specifications	Test Results	Methods
Purity	≥99%	99.9%	HPLC
Physical & Chemical Control:			
Appearance	White crystal	Conform	Visual observation
Smell	Characteristic odor	Conform	Nose smells
Melting Point (°C)	275-277°C	276°C	Melting point detector
Optical Rotation	$[\alpha]_D^{25} \geq (+)122^\circ$ (c=1, H ₂ O)	+124.9°	Polarimeter (c=1, H ₂ O)
Loss on Drying	≤0.5%	0.13%	TGA
Total Residual Solvents	≤200 ppm	40.1 ppm	GC
Heavy Metals Control:			
Arsenic	≤1 ppm	Conform	ICP-MS
Lead	≤1 ppm	Conform	ICP-MS
Mercury	≤0.2 ppm	Conform	ICP-MS
Cadmium	≤0.3 ppm	Conform	ICP-MS
Total Heavy Metals	≤10 ppm	Conform	ICP-MS
Microbiological Control:			
E. coli	Negative/25g	Conform	USP<61>
Staphylococcus aureus Rosenbach	Negative/25g	Conform	USP<61>
Salmonella	Negative/25g	Conform	USP<61>
P. aeruginosa	Negative/25g	Conform	USP<61>
Total Coliform	≤100 CFU/g	Conform	USP<61>
Total Yeast and Mold Count	≤100 CFU/g	Conform	USP<61>
Total Viable Aerobic Count	≤1000 CFU/g	Conform	USP<61>
Packing: Pack in aluminum foil bags and sterile-bags inside			
Storage: Sealed and stored in cool and dry place, protect from sunlight and moisture.			
Analyst:		Checker: Yikun Li Quality Control	