

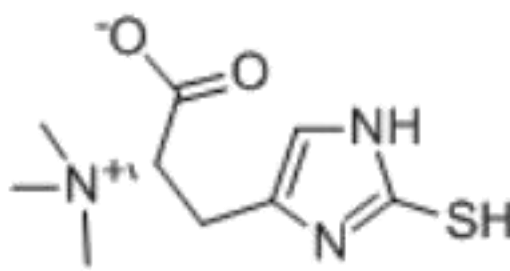


Wuhan HengHeDa Pharm Co., Ltd

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Wuhan Economic& Technological Development Zone, Wuhan, China

CERTIFICATE OF ANALYSIS

Product name	L-Ergothioneine	
CAS NO	497-30-3	
Molecular formula	C9H15N3O2S	
Molecular weight	229.3	
Quantity	5KG	
Batch NO	HHD20220418	
Production date	2022.04.18	
Expiry Date	2024.04.17	
Test based on enterprise standard		
Test Item	Specification	Result
Appearance	White powder	Complies
Melting point	275-277°C	276°C
Chemical purity	≥99%, HPLC	99.5%
Optical rotation	$[\alpha]_D \geq (+)122^\circ$ (c=1, H2O)	+125.1°
Loss on drying	≤0.2%	0.1%
Identification	1H-NMR Compliant with the structure	Complies
Elemental analysis	C: 47.14±0.3%, H: 6.59±0.3%, N: 18.32±0.3%	C: 47.6%, H: 6.65%, N: 18.38%
Total residual solvents (methanol, ethyl acetate, isopropanol, ethanol)	<1000ppm	Complies

As	≤0.1ppm	Complies
Pb	≤0.1ppm	Complies
Hg	≤0.1ppm	Complies
Cd	≤0.1ppm	Complies
Total heavy metals	≤10ppm	Complies
Total viable aerobic count	≤1000cfu/g	Complies
Total yeast and mould count	≤100cfu/g	Complies
Escherichia coli	Negative	Complies

Storage	Store in cool & dry place, keep away from strong light and heat.
Shelf life	2 years when properly stored.
Conclusion: This product complies with above specification.	

Inspector
Shen Wu

Director
King Yang

