



DALIAN HANDOM CHEMICALS CO.,LTD.

Add.: RM702, Unit 1, Building 21, Liuhe Road, Ganjingzi Dist, Dalian, Liaoning, China
E-mail: info@handom-chem.com Web.: www.handom-chem.com

Certificate of Analysis

Product Name: Ergothioneine

CAS No.: 497-30-3

Batch No.: HDC20240226

Manufacturing Date: Feb 26th, 2024

Molecular Formula: C₉H₁₅N₃O₂S

Batch Quantity: 11.20kg

Retest Date: Feb 25th, 2026

Test Items	Specifications	Test Results	Test Methods
Purity	Not less than 99.9%	99.98%	HPLC(External Standard Method)
Physical & Chemical Control:			
Appearance	White crystal	Conforms	Organoleptic
Smell	Characteristic odour	Conforms	Organoleptic
pH Value(50mg/mL, 20°C)	6.0 ~ 7.5	6.53	pH Meter
Melting Point (Decompose)	270°C ~ 271°C	270.5°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)
Particle Size	100% pass through 50 mesh sieve	Conforms	Sieve
Density	0.55g/mL ~ 0.75g/mL	Conforms	Bulk Density Meter
Loss on Drying	Less than 0.5%	0.11%	TGA
Total Residual Solvents	Not more than 200 ppm	48.2 ppm	GC
Heavy Metals Control:			
Arsenic(As)	Not more than 1 ppm	Conforms	ICP
Lead(Pb)	Not more than 1 ppm	Conforms	ICP
Mercury(Hg)	Not more than 0.2 ppm	Conforms	ICP
Cadmium(Cd)	Not more than 0.3 ppm	Conforms	ICP
Total Heavy Metals	Not more than 10 ppm	Conforms	ICP
Microbiological Control:			
Escherichia coli	Negative/25g	Conforms	USP<62>
Staphylococcus aureus Rosenbach	Negative/25g	Conforms	USP<62>
Salmonella	Negative/25g	Conforms	USP<62>
Pseudomonas aeruginosa	Negative/25g	Conforms	USP<62>
Total Coliform	Less than 100 CFU/g	Conforms	AOAC
Total Yeasts and Moulds Count	Not more than 100 CFU/g	Conforms	USP<61>
Total Viable Aerobic Count	Not more than 1000 CFU/g	Conforms	USP<61>

Conclusion: The testing results of this batch are complied with the Standard of In-house.



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Packaging: 500g sterile bag packaging, wrapped in aluminum foil bags.

Storage Conditions: Preserved in unopened original containers in a cool dry place before using; kept away from direct sunlight, heat and moisture.

Analyst: 王嵩

QC Supervisor: 赵萍

QA Director: 王嵩



Date: 2024.2.26