

Certificate of Analysis

Product	L-Glutathione (reduced)	CAS No.:	70-18-8
Product No.:	GTT	Molecular Formula	C ₁₆ H ₁₇ N ₃ O ₆ S
Chemical Name	γ -L-Glutamyl-L-cysteinyl-glycine (OSH) <i>Reduced glutathione tripeptide (γ-Glu-Cys-Gly) with free thiol; characterized as a fine chemical</i>		
Molecular Weight	307.32	Quantity	10.0g
Batch No.	GTT-3006F	Storage Temp.	-20±5°C
Mfg. Date	Nov.17 th , 2026	Retest Date	Nov.17 th , 2028

【ITEMS】		【SPECIFICATIONS】	【RESULTS】
Appearance		White crystalline powder	White crystalline powder
Solubility		Freely soluble in water	Conforms
Solution clarity and color		Clear solution	Conforms
Identification	HPLC	The retention time of the principal peak corresponds to that of the reference standard.	Conforms
	Mass spectrum	308.1±0.5 ([M+H] ⁺)	308.1
	IR	Consistent with the reference structure.	Conforms
Specific rotation		-15.5° ~ -17.5° (c=2, H ₂ O)	-15.8°
Related substances (HPLC)		Oxidized glutathione (GSSG): NMT 0.5%	0.08%
		Total impurities: NMT 1.0%	0.47%
Assay (HPLC)		98.0%~101.0% (on dried basis)	99.2%
Residual solvent		Ethanol NMT 5000ppm	332ppm
		Methanol NMT 3000ppm	N.D
Loss on drying (moisture)		NMT 1.0%	0.3%
Heavy metals		NMT 10ppm	Conforms
Residue on ignition (sulfated ash)		NMT 0.1%	0.04%
Bacterial endotoxins		NMT 5 EU/mg	3.7EU/mg
Microbial Limits		Total aerobic bacteria ≤100cfu/g	Conforms
		Mould & Yeast ≤10cfu/g	Conforms
		Escherichia coli: absence in 1g	absent
Storage		Keep in light container, protect from light, store at a temperature of -20±5°C.	
Report			Date: Jun. 20 th . 2026
Reviewer			Date: Jun. 20 th . 2026
Conclusion: This batch of product complies with Enterprise Standard.			

合格

It is only supplied as chemical product.
It is only for R&D use.