

Certificate of Analysis

Product	Thymalin (Thymus polypeptides)	CAS No.:	-
Product No.:	TY10	Form / Formula	Polypeptide complex
Sequence	Thymus polypeptide complex (mixture of low-MW peptides, 2-8 aa) <i>Heterogeneous calf-thymus extract; no single defined sequence/formula</i>		
MW range	1,000~10,000 Da	Quantity	250.0g
Batch No.	TY10-2702B	Storage Temp.	-20±5°C
Mfg. Date	Oct.4 th , 2025	Retest Date	Oct.4 th , 2027

【ITEMS】		【SPECIFICATIONS】	【RESULTS】
Appearance		White to yellowish-white powder	Off-white lyophilized powder
Solubility		Soluble in water / saline	Conforms
Solution clarity and color		Clear, colorless to pale yellow liquid	Conforms
Identification	RP-HPLC	Characteristic multi-component chromatographic profile, consistent with reference.	Conforms
	UV (Biuret)	Positive for peptide bond (characteristic absorption).	Positive
Molecular weight distribution (SEC)		Main fraction 1,000~10,000 Da; NMT 5.0% > 30kDa	Conforms
Total nitrogen content		13.0%~16.5% (dry basis)	15.6%
Peptide (protein) content		NLT 80.0% (Lowry, dry basis)	89.2%
Loss on drying (moisture)		NMT 5.0%	2.5%
pH (10mg/mL)		6.0~7.5	6.8
Heavy metals		NMT 10ppm	Conforms
Residual solvent	Acetone NMT 5000ppm		N.D
	Ethanol NMT 5000ppm		N.D
Bacterial endotoxins		NMT 10EU/mg	1.5EU/mg
Microbial Limits	Total aerobic bacteria ≤100cfu/g		Conforms
	Mould & Yeast ≤10cfu/g		Conforms
	Staphylococcus aureus: absence in 1g		absent
	Pseudomonas aeruginosa: absence in 1g		absent
Assay (peptide content)		NLT 80.0% (Calculated on dry basis)	89.2%
Storage		Keep in tight container, protect from light, store at a temperature of -20±5°C.	
Report		QC01	Date: Jun. 26 th . 2026
Reviewer		QC02	Date: Jun. 26 th . 2026
Conclusion: This batch of product complies with Enterprise Standard.			

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

合格