

Certificate of Analysis

Product Name: Melatonin Thymosin 1(Specification 10mg)	
CAS No.: 62304-98-7	Lot No.: MT1-20260701U
Molecular Formula: C ₄₃ H ₇₈ N ₁₆ O ₁₂	Manufacturing Date: 2026.07.01
Molecular Weight: 975.18 Da	Retest Date : 2027.07.01
Peptide Sequence: H-Ala-Ser-Asp-Ala-Ala-Val-Asp-Thr-Ser-Ser-Glu-Ile-Thr-Thr -Lys-Asp-Leu-Lys-Glu-Lys-Lys-Glu-Val-Val-Glu-Glu-Ala-Glu-Asn-OH	
Store at: Lyophilized bulk powder: Store at ≤ -20°C, protected from light & moisture Reconstituted solution: Store at 2–8°C, use within 7 days	

TEST	SPECIFICATION	RESULT
Appearance	White to off-white lyophilized powder	Conform
MS (ESI)	Match theoretical molecular ion	Consistent with target mass
Purity (RP-HPLC)	≥98.0%	99.35%
Total Related Substances	≤ 2.0%	0.65%
(RP-HPLC)		
Water Content (Karl Fischer)	≤ 8.0%	3.7%
Acetic Acid Content (IC/HPLC)	≤ 12.0%	7.2%
Organic Solvents Residue	Total ≤ 1.0%	<0.1%
(GC)Acetonitrile / DCM / DMF /		
Ethanol		
Cadmium (Cd)	≤0.1 ppm	N.D.
Lead (Pb)	≤0.5 ppm	N.D.
Mercury (Hg)	≤0.1 ppm	N.D.
Arsenic (As)	≤0.3 ppm	N.D.
Endotoxin (LAL Method,	≤ 5 EU/mg protein	<0.6 EU/mg
injectiongrade mandatory)		
Total Aerobic Microbial	≤ 100 CFU/g	<10 CFU/g
Count		

Yeast & Mould Count	≤ 10 CFU/g	<10 CFU/g
Conclusion: The product conforms with enterprise standard and qualified. QC Director: Bingqing Wang		
1.The material is non-explosive, non-corrosive, non-radioactive, non-flammable, non-toxic and harmful, and is not a raw material for the manufacture of chemical weapons. 2.This product is a sample of chemical synthesis (not of a biological origin i.e. not of animal, human or plant origin) 3.The above material is to be used exclusively for in vitro laboratory research purposes only.		

Anhui Rentong Import and Export Co.,LTD