

BATCH QUALITY DOCUMENT

Certificate of Analysis

Batch-specific analytical results, QSC Peptidology in-house QC.

Product	Thymosin Alpha 1	Batch	TA1-2607
Mfg date	2026-07-07	Test date	2026-07-15
Retest date	2028-07-06	Quantity	16.5g
Molecular formula	C129H215N33O55	Molecular weight	3108.0
Storage condition	-20±5°C		

Test Item	Acceptance Criteria	Test Result	Status
Appearance	White or off-white powder	White powder	PASS
Solubility	Soluble in water	Meet the requirements	PASS
Identity by MS	3108.3±1.0	3108.0	PASS
Water Content (Karl Fischer)	≤5.0%	3.9%	PASS
Acetic Acid (By HPLC)	≤5.0%	1.9%	PASS
Peptide Purity (By HPLC)	≥98.0%	99.2%	PASS
Related Substance	Total Impurities ≤2.0% Largest Single Impurity ≤1.0%	0.79% 0.42%	PASS
Peptide Content	Report	93.7%	PASS
Bacterial Endotoxins	<5IU/mg	<5IU/mg	PASS
Organic solvent residue	Acetonitrile ≤410ppm Methanol ≤3000ppm Triethylamine ≤320ppm	ND ND ND	PASS
Microbial limit	Total aerobic bacteria ≤1000cfu/g Mould & Yeast ≤100cfu/g	10cfu/g <10cfu/g	PASS

CONCLUSION Meets all specifications stated above.

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