

## Thymosin Alpha-1

## Certificate of Analysis

Product Name	Thymosin Alpha-1		
CAS No.	62304-98-7	Batch No.	20250919027
Date of Producing	2025-09-19	Molecular Formula	C129H215N33O55
Retest Date	2027-09-19	Molecular Weight	3108.28
Condition of Storage		2~8℃	
Reference Standard		Enterprise Standard	

TEST	SPECIFICATION	RESULT
Appearance	white or almost white powder or loose mass	Conforms
Solubility	Dissolved in TFA,slightly dissolved in water, insoluble in acetonitrile and ether	Conforms
Specific rotation[a] <sup>2</sup> <sub>D</sub> <sup>0</sup>	-110.0°(c=5,0.02mol/L Phosphate)	-107.4°
Clarity & Colour of solution	The solution should be clear and colorless.If the turbidity is obvious,it shall not be thicker than the standard solution of turbidity NO.1.	Clear and colorless
Water Content (Karl Fischer)	≤5.0%	3.5%
Acetic Acid (By HPLC)	≤5.0%	0.1%
Peptide Purity (By HPLC)	≥98.0%	99.5%
Related Substance	Total Impurities(%)≤2.0%	0.5%
By HPLC)	Largest Single Impurity(%)≤1.0%	0.3%

Conclusion	the product conforms with Ch.P and qualified	i
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Analyst: Judy Liu Checker: Kim Huang Approved by: John Ru