



HEALTHTIDE BIOTECH CO.,LTD.

Certificate of Analysis

Product Name	Thymosin β 4	CAS No.	77591-33-4
Molecular Formula	C212H350N56O78S	Molecular Weight	4963.44
Batch No.	XR25122202-1	Date of Mfg	Dec 22,2025
Reference Standard	Enterprise Standard	Retest Date	Dec 21,2027
Storage	Place in an airtight container protected from light and keep the temperature between 2°C and 8°C.		
TEST	SPECIFICATION		RESULT
Appearance	White or almost white fluffy powder		Conform
Solubility	Soluble in water		Conform
Water Content (Karl Fischer)	$\leq 8.0\%$		4.32%
Acetic Acid (By HPLC)	$\leq 5\%$		1.11%
Trifluoroacetic Acid	$\leq 0.5\%$		Not Detected
Peptide Purity (By HPLC)	$\geq 98.0\%$		99.57%
Related Substance (By HPLC)	Total Impurities(%) $\leq 2.0\%$		0.56%
	Largest Single Impurity(%) $\leq 1.0\%$		0.21%
Assay	$\geq 90.0\%$		94.32%
Bacterial Endotoxins	$\leq 10\text{EU}/\text{mg}$		Conform
Conclusion	This batch meets the internal standards of the enterprise and is qualified.		

Note: This product is for research or production use only. Not for direct human use.

Analyst: Pu mingyue

