

## Certificate of Analysis

### Thymosin Beta 4 Acetate

CAS No	77591-33-4	Code	BIOJTHM001
Batch No	2025120701	Manufacture Date	Dec.26, 2025
Retest Date	Dec.25, 2027	Quantity	30G

Testing Items	Specifications	Results
Appearance	White or off-white powder	White powder
Solubility	Soluble in water	Complies
Water content (Karl Fischer)	$\leq 8.0\%$	1.8%
Acetic Acid (By HPLC)	$\leq 10.0\%$	5.7%
Trifluoroacetic acid (By HPLC)	$\leq 0.25\%$	Not detected
Molecular weight	-----	4963.44
Peptide Purity (By HPLC)	$\geq 98.0\%$	99.3%
Related Substance (By HPLC)	Largest single impurity $\leq 1.0\%$ Total impurities $\leq 2.0\%$	0.2% 0.7%
Organic solvent residue	Acetonitrile $\leq 0.041\%$ Dichloromethane $\leq 0.060\%$ N,N-Dimethylformamide $\leq 0.088\%$	<0.041% <0.060% <0.088%
Bacterial endotoxin	<10EU/mg	<10EU/mg
Conclusion	This product conforms to In-house standard	

**\*Storage conditions:**

Stability studies demonstrate the material remains stable at 25 °C; ambient shipment permitted.

Long-term storage recommended at -20 °C

Active pharmaceutical ingredient supplied for pharmacy compounding.

