

## Certificate of Analysis

### Thymosin Beta 4 Acetate

CAS No	77591-33-4	Code	BIOJTHM001
Batch No	2024111901-1	Manufacture Date	Dec.27, 2024
Retest Date	Dec.26, 2026	Quantity	50G

Testing Items	Specifications	Results
Appearance	White or off-white powder	White powder
Solubility	Soluble in water	Complies
Water content (Karl Fischer)	$\leq 8.0\%$	5.1%
Acetic Acid (By HPLC)	$\leq 10.0\%$	4.4%
Trifluoroacetic acid (By HPLC)	$\leq 0.25\%$	Not detected
Molecular weight	-----	4963.44
Peptide Purity (By HPLC)	$\geq 98.0\%$	98.8%
Related Substance (By HPLC)	Largest single impurity $\leq 1.0\%$ Total impurities $\leq 2.0\%$	0.6% 1.2%
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: Store at  $-20 \pm 5^{\circ}\text{C}$ , Protect from moisture and light.**