

Certificate of Analysis

Thymosin Beta 4 Acetate

CAS No	77591-33-4	Code	BIOJTHM001
Batch No	PG-TB4-260701A3	Manufacture Date	Jul.01, 2026
Retest Date	Jun.30, 2028	Quantity	40G

Testing Items	Specifications	Results
Appearance	White or off-white powder	White powder
Solubility	Soluble in water	Complies
Water content (Karl Fischer)	$\leq 8.0\%$	3.0%
Acetic Acid (By HPLC)	$\leq 10.0\%$	9.1%
Trifluoroacetic acid (By HPLC)	$\leq 0.25\%$	Not detected
Molecular weight	-----	4963.44
Peptide Purity (By HPLC)	$\geq 98.0\%$	99.09%
Related Substance (By HPLC)	Largest single impurity $\leq 1.0\%$ Total impurities $\leq 2.0\%$	0.32% 0.91%
Peptide content	$\geq 80.0\%$	87.1%
Organic solvent residue	Acetonitrile $\leq 410\text{ppm}$ Dichloromethane $\leq 600\text{ppm}$ N,N-Dimethylformamide $\leq 880\text{ppm}$	16ppm Not detected Not detected
Bacterial endotoxin	$< 10\text{EU/mg}$	$< 10\text{EU/mg}$
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