

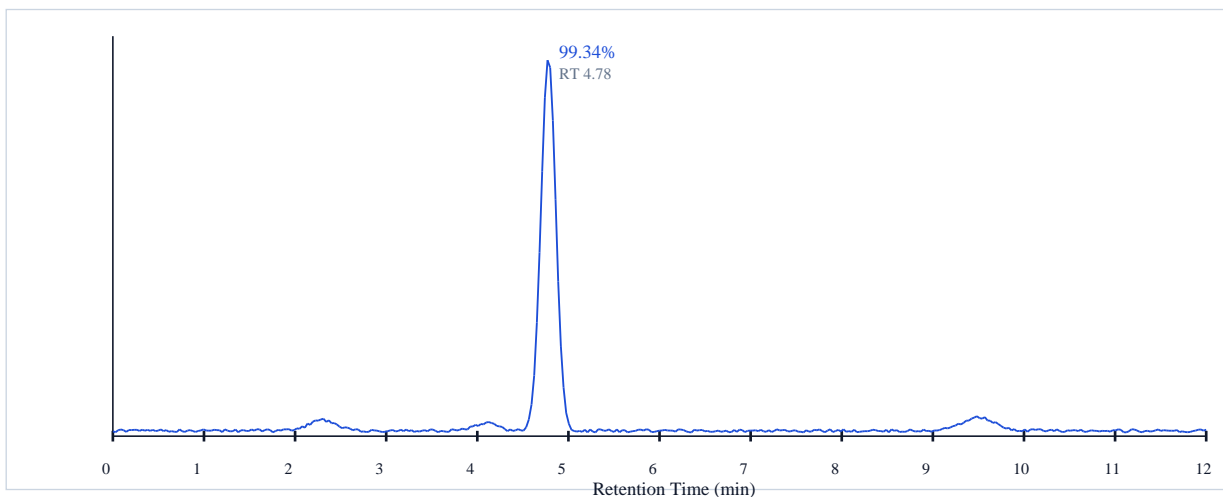
Product Name	TB-500 (Thymosin Beta-4 Frag)	Catalog No.	TB5
Lot Number	TB4-2406-0117	Manufacture Date	28 May 2026
Appearance	White lyophilized powder	Retest Date	28 May 2028
Storage	-20 °C, protected from light	Net Quantity	Per vial label
Molecular Weight	888.02 g/mol	CAS / Identifier	Research grade

Sequence / Structure **LKKTETQ** (acetylated)

Specifications & Results

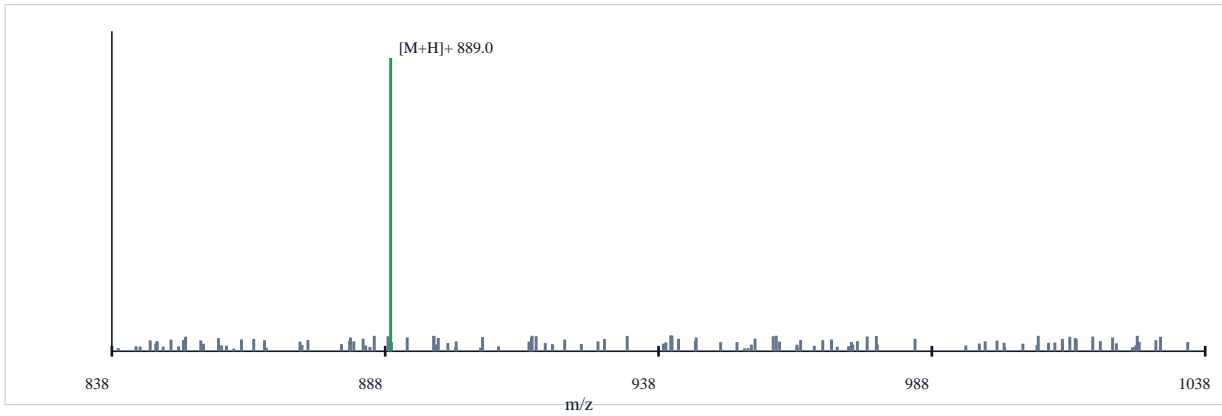
Test	Method	Specification	Result	Status
Appearance	Visual	White to off-white powder	White powder	PASS
Identity	RP-HPLC / UV 220 nm	Conforms to reference	Conforms	PASS
Identity	LC-MS (ESI+)	[M+H] ⁺ = 889.0 ± 0.5	889.02	PASS
Purity (HPLC)	RP-HPLC, AUC %	≥ 98.00 %	99.34 %	PASS
Water content	Karl Fischer	≤ 6.0 %	3.34 %	PASS
Acetate content	Ion chromatography	≤ 15.0 %	6.34 %	PASS
Residual solvents (TFA)	GC headspace	≤ 1.0 %	< 0.5 %	PASS
Bacterial endotoxin	LAL kinetic	≤ 10 EU/mg	< 1 EU/mg	PASS
Bioburden	USP <61>	≤ 100 CFU/g	< 10 CFU/g	PASS

RP-HPLC Chromatogram (UV, 220 nm)



Column: C18, 4.6 × 250 mm, 5 μm · Mobile phase A: 0.1% TFA in H₂O · B: 0.1% TFA in MeCN · Gradient: 5→65% B over 12 min · Flow: 1.0 mL/min · Inj: 20 μL · Detection: 220 nm · **Main peak 99.34% AUC @ RT 4.78 min**

LC-MS Confirmation (ESI+)



Instrument: Agilent 6125B single quad · Mode: ESI+ · Scan: 200–1088 m/z · **Observed [M+H]⁺ = 889.02 (theoretical 889.02)**

Conclusion

Lot **TB4-2406-0117** of **TB-500 (Thymosin Beta-4 Frag)** meets or exceeds all release specifications listed above and is approved for distribution as a reference standard for laboratory research use only.

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QC Lead, Analytical Chemistry

S. Reyes, M.Sc.

Quality Assurance Manager

Approved

28 May 2026

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