

Independent Research Testing Center
875 Innovation Drive, Cambridge, MA 02139, USA

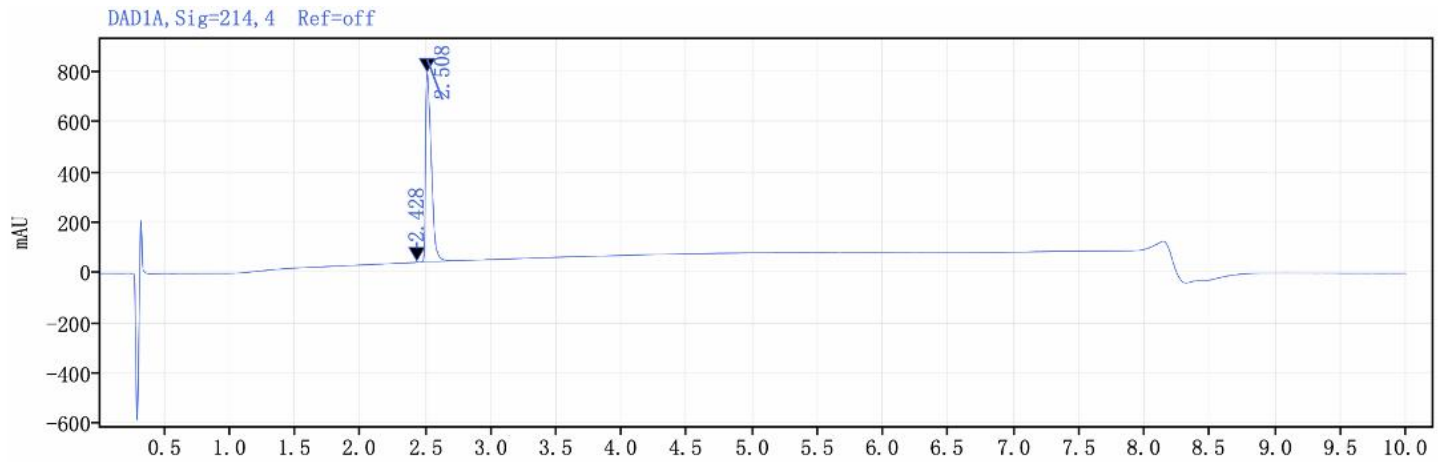
CERTIFICATE OF ANALYSIS (COA)

Product Name	Thymosin Beta-4 / TB-500 5 mg (Injectable Research Vial)
Chemical Name	Thymosin Beta-4 (Tβ4, TB-500)
CAS Number	77591-33-4
Batch / Lot Number	TB4050505
Manufacturing Date	2026-05-05
Retest / Expiry Date	2028-05-05
Net Content	5 mg per vial
Storage Conditions	Store at 2–8°C, protected from light and moisture
Appearance	White to off-white lyophilized powder
Molecular Formula / MW	C ₂₁₂ H ₃₅₀ N ₅₆ O ₇₈ S / 4963.44 g/mol

Analytical Results

Test Item	Specification	Result	Method
Identification	Conforms	Conforms	LC-MS
Purity (HPLC)	≥98.0%	99.24%	HPLC
Peptide Content	95.0–105.0%	99.9%	HPLC
Appearance	White to off-white lyophilized powder	Conforms	Visual
Water Content	≤3.0%	0.9%	Karl Fischer
Heavy Metals	≤10 ppm	<10 ppm	ICP-MS
Endotoxin	<10 EU/mg	<10 EU/mg	LAL Test

HPLC Chromatogram



For laboratory research use only. Not for human consumption.

Tester Name	Dr. Michael Carter
Signature	
Test Date	2026-05-21