

ILS Laboratories

8222 Vickers St, Suite 106, San Diego, CA 92111
(619) 329-3999 | ils-lab.com

Thymosin Beta-4 (10mg) - 10mg

Tested for: Kovagen

www.Kovagen.com

COA #: COA-2026-954829
Lot Number: WY703014
Accession #: ACC-2026-13980
Labeled Content: 10mg

Analysis Date: 08/03/2026
Appearance: Good
Sample Matrix: Powder
Volume: 3mL
Date Received: 2026-08-03

PASS



Scan to verify
authenticity at ils-lab.com
Access Code: FZ4QV6GK

Method: Full QC Panel

Identity

Thymosin Beta-4 (10mg)

Peptide Purity

99.73%



Fentanyl
Free

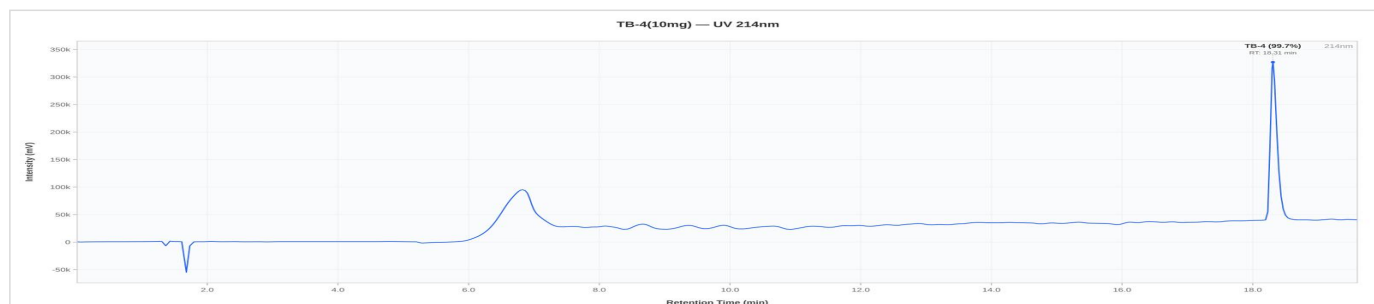
Purity, Identity & Quantitation (HPLC)

Analyte	Specification	Result	Unit	Status
Peptide Purity (HPLC)	>= 95.0%	99.73%	%	PASS
Net Peptide Content	Report Only	10.6	mg	N/A
Identity (HPLC-RTM)	TB-4	Confirmed	-	PASS
Fentanyl Screen	Immunoassay, 50 ng/mL cutoff	Not Detected	-	PASS



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HPLC Chromatogram



HPLC Conformity Testing Results (6 samples tested)

Sample	Purity	NPC	ID	Result
Dedicated V0	99.73%	10.6 mg	Confirmed	PASS
Dedicated V0	99.73%	10.6 mg	Confirmed	PASS
Conformity V1	99.47%	10.44 mg	Confirmed	PASS
Conformity V1	99.47%	10.44 mg	Confirmed	PASS
Conformity V2	99.72%	10.65 mg	Confirmed	PASS
Conformity V2	99.72%	10.65 mg	Confirmed	PASS
Mean	99.64%	10.56 mg	—	—
Std Dev	0.1203%	0.0896 mg	—	—



Dr. Greg Kalyuzhny

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Lab Director
8/3/2026

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Verify: portal.ils-lab.com/verify/QrW933JLfsdKN3A
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Heavy Metals Analysis (ICP-MS)

Test	Specification	Result	Status
Arsenic (As)	NMT 1.5 ppm	0.0953 ppm	PASS
Cadmium (Cd)	NMT 0.5 ppm	0.0534 ppm	PASS
Lead (Pb)	NMT 1.0 ppm	0.1874 ppm	PASS
Mercury (Hg)	NMT 1.5 ppm	0.2015 ppm	PASS
Chromium (Cr)	NMT 10.0 ppm	0.692 ppm	PASS

Sterility Testing (PCR)

Test	Specification	Result	Status
Sterility (PCR)	No Growth	No Growth	PASS

Endotoxin Testing (USP <85>)

Test	Specification	Result	Status
Endotoxin (USP <85>)	Report Result	0.155 EU/mL	Reported

About this result: Endotoxin is reported as a quantitative value. Acceptable limits vary by product type and matrix, so no universal pass/fail threshold applies to RUO products. This result is below commonly referenced endotoxin thresholds.

Notes & Methodology

1. Date Tested: 08/03/2026. Methods: Purity, Identity & Quantitation (HPLC).
2. The sample was confirmed to be Thymosin Beta-4 (10mg) by HPLC. Identification by chromatographic retention time comparison with a reference standard.
3. Elemental impurities analyzed by ICP-MS per USP <233> methodology. Acceptance criteria are internal laboratory quality screening limits for research-use materials and do not represent evaluation against any specific pharmacopeial monograph or product specification.
4. Endotoxin tested per USP <85> kinetic turbidimetric method. Acceptance criteria per client specification.
5. Peptide purity determined by RP-HPLC area normalization at 214 nm. Value represents the percentage of the target peptide relative to all peptide-related peaks. Non-peptide process-related impurities, if detected, are excluded from the calculation.
6. Chromatogram shown is representative: Conformity V2 (99.72% purity, closest to batch mean of 99.64%).




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