Certificate of Analysis

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

Thymosin Alpha-1 - 10mg

Tested for: NextGen Peptides
www.NGpeptide.com

PASS

COA #:	**COA-2026-S1RYSI**	Analysis Date:	**07/08/2026**
Lot Number:	**TA1-05**	Appearance:	**Good**
Accession #:	**ACC-2026-7198**	Sample Matrix:	**Lyophilized**
Labeled Content:	**10mg**	Vial Size:	**3mL**
		Date Received:	**06/30/2026**

Scan to verify authenticity at ils-lab.com
Access Code: 5LVHJCRF

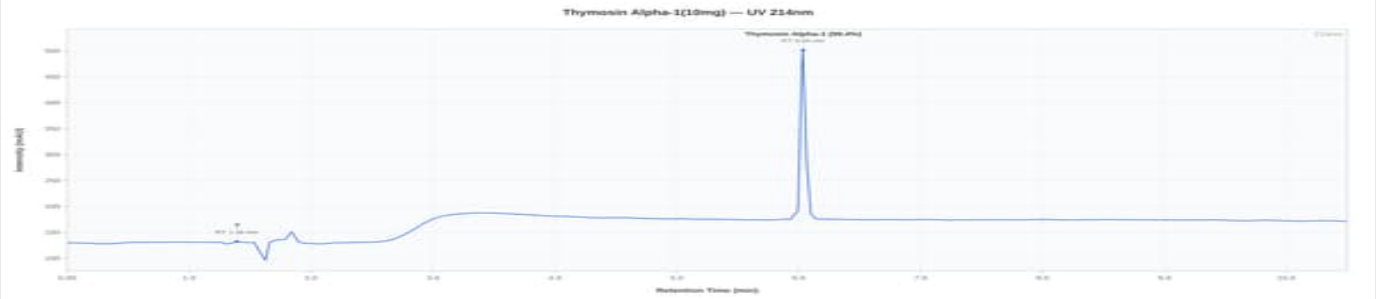
Method: **Full QC Panel**

Identity	Peptide Purity	
Thymosin Alpha-1	**99.47%**	**Fentanyl Free**

Blend Purity & Quant (HPLC)

Analyte	Specification	Result	Unit	Status
Peptide Purity (HPLC)	>= 95.0%	**99.47%**	%	**PASS**
Net Peptide Content	Report Only	**10.54**	mg	N/A
Identity (HPLC-RTM)	Thymosin Alpha-1	**Confirmed**	-	**PASS**
Fentanyl Screen	Immunoassay, 50 ng/mL cutoff	**Not Detected**	-	**PASS**

HPLC Chromatogram



Representative chromatogram, Dedicated V0

Heavy Metals (ICP-MS)

Analyte	Specification	Result	Unit	Status
Heavy Metals				
Arsenic (As)	<= 1.5 ppm	**Not Detected**	ppm	**PASS**
Cadmium (Cd)	<= 0.5 ppm	**Not Detected**	ppm	**PASS**
Lead (Pb)	<= 1.0 ppm	**Not Detected**	ppm	**PASS**
Mercury (Hg)	<= 1.5 ppm	**Not Detected**	ppm	**PASS**
Chromium (Cr)	<= 10.0 ppm	**Not Detected**	ppm	**PASS**

Dr. Greg Kalyuzhny
Lab Director
7/8/2026

COA #: COA-2026-S1RYSI
Access Code: 5LVHJCRF
Verify: portal.ils-lab.com/verify/C2uuB_WYTghzJAwc
Issued: 7/8/2026

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HPLC Conformity Testing Results (4 samples tested)

Sample	Purity	NPC	ID	Result
Dedicated V0	99.37%	10.27 mg	Confirmed	**PASS**
Conformity V1	99.47%	10.54 mg	Confirmed	**PASS**
Conformity V2	99.21%	10.51 mg	Confirmed	**PASS**
Conformity V3	99.37%	10.35 mg	Confirmed	**PASS**
Mean	**99.36%**	**10.42 mg**	—	—
Std Dev	**0.0931%**	**0.1117 mg**	—	—

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	**0.877 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.

Notes & Methodology

1. Date Tested: 07/08/2026. Methods: Blend Purity & Quant (HPLC); Heavy Metals (ICP-MS).
2. The sample was confirmed to be Thymosin Alpha-1 by HPLC. Identification by chromatographic retention time comparison with a reference standard.
3. Endotoxin tested per USP <85> kinetic turbidimetric method. Acceptance criteria per client specification.
4. 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.
5. Chromatogram shown is representative: Dedicated V0 (99.37% purity, closest to batch mean of 99.36%).

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