Certificate of Analysis

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

Thymosin Alpha-1 - 10mg

7X TESTED

PASS

Tested for: Elyria Bio

COA #:	**COA-2026-EMWTO1**	Analysis Date:	**11/12/2026**
Lot Number:	**TA10701**	Appearance:	**Good**
Accession #:	**ACC-2026-25423**	Sample Matrix:	**Lyophilized**
Labeled Content:	**10mg**	Volume:	**3mL**
		Date Received:	**11/06/2026**

Scan to verify authenticity at ils-lab.com
Access Code: VL7NV72J

Method: **Full QC Panel**

Identity	Peptide Purity	
Thymosin Alpha-1	**99.90%**	Fentanyl Free

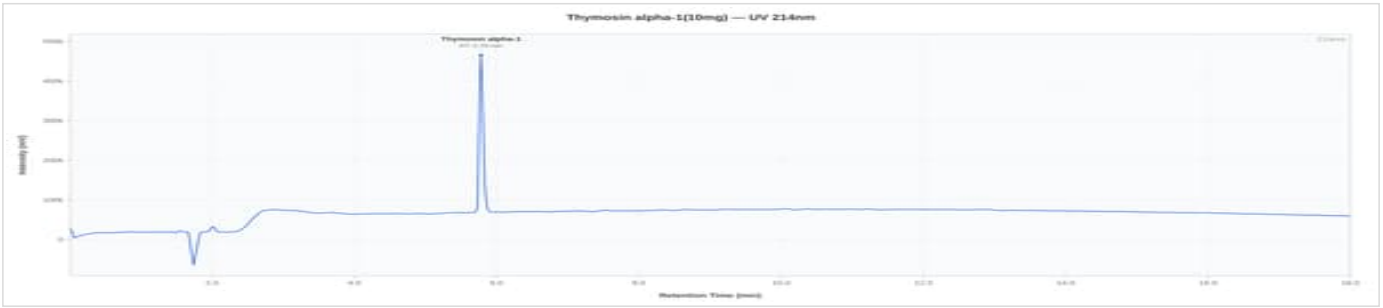


Thymosin Alpha-1 10mg - TA10701

Full QC Panel

Analyte	Specification	Result	Unit	Status
Peptide Purity (HPLC)	>= 95.0%	**99.90%**	%	**PASS**
Net Peptide Content	Report Only	**10.53**	mg	N/A
Identity (HPLC-RTM)	Thymosin alpha-1	**Confirmed**	-	**PASS**
Fentanyl Screen	Immunoassay, 50 ng/mL cutoff	**Not Detected**	-	**PASS**

HPLC Chromatogram



Thymosin Alpha-1 10mg - TA10701: UV Chromatogram

Heavy Metals Analysis (ICP-MS)

Test	Specification	Result	Status
Arsenic (As)	NMT 1.5 ppm	*Not Detected*	**PASS**
Cadmium (Cd)	NMT 0.5 ppm	*Not Detected*	**PASS**
Chromium (Cr)	NMT 10 ppm	0.094 ppm	**PASS**
Mercury (Hg)	NMT 1.5 ppm	0.42 ppm	**PASS**
Lead (Pb)	NMT 1 ppm	0.304 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	**0.16 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: 11/12/2026. Methods: Full QC Panel.
2. The sample was confirmed to be Thymosin Alpha-1 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 chromogenic 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. Purity values are capped at 99.9% to reflect instrument limit of detection (LOD). Trace impurities below the detection threshold may be present.
7. Quality System: ILS Laboratories operates an ISO/IEC 17025 quality management system. Peptide testing is performed for Research Use Only.
8. This certificate reports analytical results for the sample(s) submitted to ILS Laboratories for testing. All sample identifications, product names, brand names, lot/batch numbers, and labeled content are provided by the submitting party and have not been independently verified. Results reflect only the analytical testing of the specific sample(s) provided and do not constitute an evaluation or endorsement of the manufacturer's processes, quality systems, or overall production. ILS Laboratories makes no representations regarding the intended use, safety, efficacy, regulatory status, or intellectual property ownership of any materials tested.

ILS LABS

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ils-lab.com

Dr. Greg Kalyuzhny

Lab Director

11/12/2026

COA #: **COA-2026-EMWTO1**

Access Code: **VL7NV72J**

Verify: portal.ils-lab.com/verify/dRuuRh_iezC8eQGM

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