

ILS Laboratories

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

Thymosin Alpha-1 - 10mg

px1 Tested for: px1 research
PX1RESEARCH.COM

PASS

COA #: COA-2026-CZQOMG
Lot Number: PX1TA110-0021
Accession #: ACC-2026-13170
Labeled Content: 10mg

Analysis Date: 07/31/2026
Appearance: Good
Sample Matrix: Lyophilized
Volume: 3mL
Date Received: 07/29/2026



Scan to verify
authenticity at ils-lab.com
Access Code: NWDVDE65

Method: Full QC Panel

Identity	Peptide Purity	Fentanyl Free
Thymosin Alpha-1	99.53%	

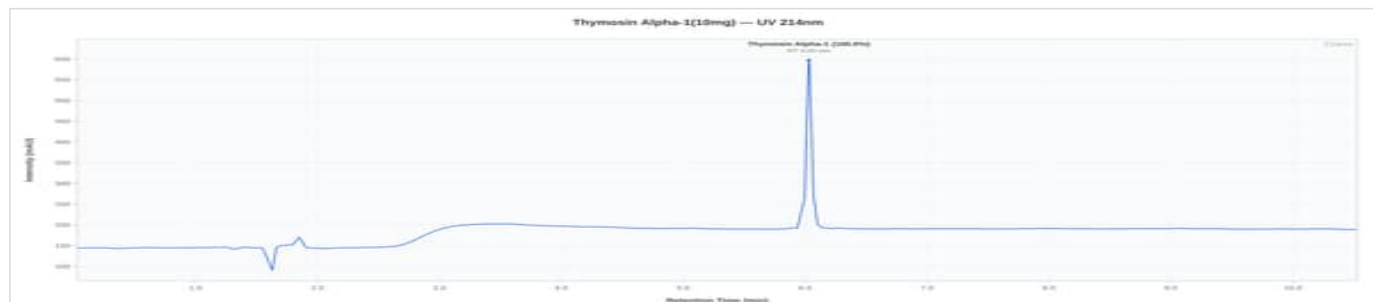
Full QC Panel

Analyte	Specification	Result	Unit	Status
Peptide Purity (HPLC)	>= 95.0%	99.53%	%	PASS
Net Peptide Content	Report Only	10.27	mg	N/A
Identity (HPLC-RTM)	Thymosin Alpha-1	Confirmed	-	PASS
Fentanyl Screen	Immunoassay, 50 ng/mL cutoff	Not Detected	-	PASS



Thymosin Alpha-1 10mg -
PX1TA110-0021

HPLC Chromatogram



Thymosin Alpha-1 10mg - PX1TA110-0021: UV Chromatogram

Heavy Metals Analysis (ICP-MS)

Test	Specification	Result	Status
Arsenic (As)	NMT 1.5 ppm	0.1442	PASS
Cadmium (Cd)	NMT 0.5 ppm	0.0638	PASS
Lead (Pb)	NMT 1.0 ppm	Not Detected	PASS
Mercury (Hg)	NMT 1.5 ppm	0.208	PASS
Chromium (Cr)	NMT 10.0 ppm	1.924	PASS



Dr. Greg Kalyuzhny

Dr. Greg Kalyuzhny
Lab Director
7/31/2026

COA #: COA-2026-CZQOMG
Access Code: NWDVDE65
Verify: <portal.ils-lab.com/verify/BHzcLvRG7qGShu0>
Issued: 7/31/2026

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>)	NMT 0.05 EU/mL	NMT 0.05 EU/mL	FAIL

Acceptance criteria: NMT 0.05 EU/mL per client specification.

Notes & Methodology

1. Date Tested: 07/31/2026. 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 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.




Dr. Greg Kalyuzhny
Lab Director
7/31/2026

COA #: **COA-2026-CZQOMG**
Access Code: **NWDVDE65**
Verify: <portal.ils-lab.com/verify/BHzcLvRWG7qGShu0>
Issued: 7/31/2026