Vanguard Laboratory
2635 Parkmont Ln
Olympia, Wa 98502
360-967-7010

Certificate of Analysis

Thymosin Alpha-1 11.68 mg

Report To:
Peptidology
11111 N Scottsdale Rd STE 205
Scottsdale, AZ 85254
480-974-4660

Compound: Thymosin Alpha-1
Amount: 11.68 mg
Laboratory ID: V260724-26 003
Date Reported: 8/13/2026
Lot Number: 1750



Chromatogram for vial A shown above.

Analysis	Method	Result (per Vial)		
CAS Number of Reference Std.	n/a	62304-98-7		
Identity	HPLC-UV/VIS	Pass - Matches Ref. Standard		
Chromatographic Purity	HPLC-UV/VIS	98.20%	98.29%	98.16%
Assay	HPLC-UV/VIS	12.03 mg	11.56 mg	11.46 mg
Fentanyl Screening	Immunoassay	Pass - <50 ng/mL		



Report By: Dustin Newman, Laboratory Director on 8/13/2026

Approved By: Tori Johnson, Operations Manager on 8/13/2026

ISO 17025:2017 ACCREDITED LABORATORY

Please consult A2LA Certificate #6377.01.01 for a list of accredited tests. Samples were received in acceptable condition. The result(s) in this report relate only to the portion of the sample(s) tested. All analyses were performed consistent with the Vanguard Laboratory Quality Management System. Vanguard Laboratory and its staff did not observe or participate in the sample selection process, and cannot confirm the authenticity of the sample or its representativeness of the associated lot/batch.

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Analyte	Method	LOQ (ppm)	Result (per vial)	
Chromium (Cr)	ICP-MS	0.05	ND	ND
Arsenic (As)	ICP-MS	0.01	ND	ND
Cadmium (Cd)	ICP-MS	0.01	ND	ND
Lead (Pb)	ICP-MS	0.02	ND	ND
Mercury (Hg)	ICP-MS	0.005	ND	ND

Run ID: 260729.2

Analysis	Method	Vial	Result
Endotoxins	LAL	A	Pass - <5.00 EU/mg*
		B	Pass - <5.00 EU/mg*
		C	Pass - 11.7 EU/mg*

*Pass/Fail criteria based on the USP/FDA threshold of 5 EU/kg (350 EU total for a 70 kg adult)

Analysis	Method	Result (per Vial)	
Sterility	USP <71>	A	Pass - No Growth
		B	Pass - No Growth
		C	Pass - No Growth
		D	Pass - No Growth
		E	Pass - No Growth

Report By: Dustin Newman, Laboratory Director on 8/13/2026

Approved By: Tori Johnson, Operations Manager on 8/13/2026

ND: Non-Detect
LOD: Limit of Quantification

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Lot Number: 1750

Residual Solvents Analysis			
Analyte	**Method**	**LOQ (ppm)**	**Result (ppm)**
Acetone	GC-MS	3.7	ND
Benzene	GC-MS	0.02	ND
Butanes	GC-MS	3.7	ND
Chloroform	GC-MS	0.02	ND
Cyclohexane	GC-MS	2.9	ND
Dichloromethane	GC-MS	0.45	ND
Ethanol	GC-MS	3.7	ND
Ethyl Acetate	GC-MS	3.7	ND
Heptane	GC-MS	3.7	ND
Hexanes	GC-MS	0.21	ND
Isopropanol	GC-MS	3.7	ND
Methanol	GC-MS	2.2	ND
Pentanes	GC-MS	3.7	ND
Propane	GC-MS	3.7	ND
Toluene	GC-MS	0.66	ND
Total Xylenes	GC-MS	1.6	ND

Peptidology

Analysis	Method	Result (per Vial)	
Container Closure Integrity	Dye Ingress Method	**A**	Pass
		B	Pass
		C	Pass
Solubility Analysis	Fully Soluble in 2 mL Water	**A**	Pass
		B	Pass
		C	Pass
Trifluoroacetic Acid (TFA)	Ion Chromotography	ND - <0.10%	

ND: Non-Detect
LOD: Limit of Quantification

ISO 17025:2017 ACCREDITED LABORATORY

Report By: Dustin Newman, Laboratory Director on 8/13/2026

Approved By: Tori Johnson, Operations Manager on 8/13/2026

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LABORATORY REPORT

Peptidology
11111 N Scottsdale Rd
Scottsdale, AZ 85254

Phone: 480-974-4660

Account #: E74035
Sample Name: Thymosin Alpha-1
Lot #: 1750
Storage Conditions: Room Temperature

Date Received: 7/27/2026

Submission #: ETX-260724-0461

Microbiology Tests:

ScanRDI Sterility Test Date Started: 7/27/2026 Date Completed: 7/29/2026

Method Suitability: No Method Suitability on file

Result: Pass

Respectfully submitted,

EAGLE ANALYTICAL SERVICES INC.

Alison Eng, Quality Control Manager

Results apply only to the tested sample(s) as received.