

Thymosin Alpha 1 — Certificates of Analysis

Every batch we have tested for this product, newest first.
Match the strength on your vial to the rows below and turn to that page.

PAGE	STRENGTH	BATCH / LOT
2–6	2mg, 10mg, 96mg	7/24/2026 · BATCH-0063
7	5mg, 41mg	5/6/2026

Lot Number: **DPS-8269267**
 Brand / Distributed by: **Iron Within Research**
 Identity: **www.ironwithinresearch.com**

Analysis Date: **07/24/2026**
 Searchable via: **horizonanalytical.com**

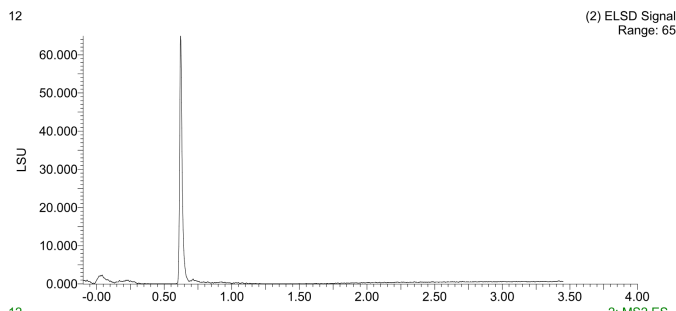
Compound:	Thymosin Alpha-1
Report Number:	1020365
Appearance:	White Lyophilized Powder

CAS:	62304-98-7
Formula:	C ₁₂₉ H ₂₁₅ N ₃₃ O ₅₅
Mol Weight:	~3108.3 g/mol

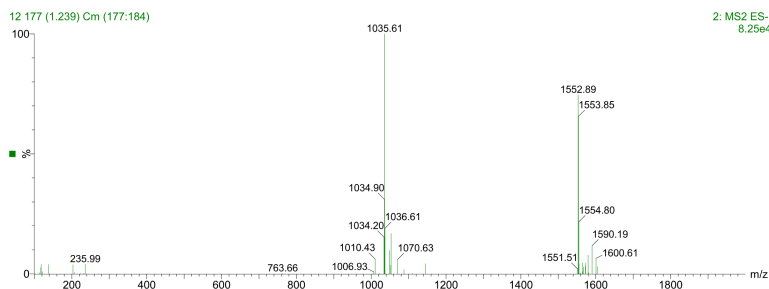
Pubchem CID: 16130571

Qualitative and Quantitative chemical analysis by Ultra High Performance Liquid Chromatography with Mass Spectrometry

	Specification	Result	Scan to Validate:
Compound Test:	Thymosin Alpha-1	Thymosin Alpha-1	
Quantity:	10mg	9.96mg	
Purity:	>98%	99.39%	



UPLC



MS

Aleksey Yevtodiyenko PhD
 Research and Formulation Chemist

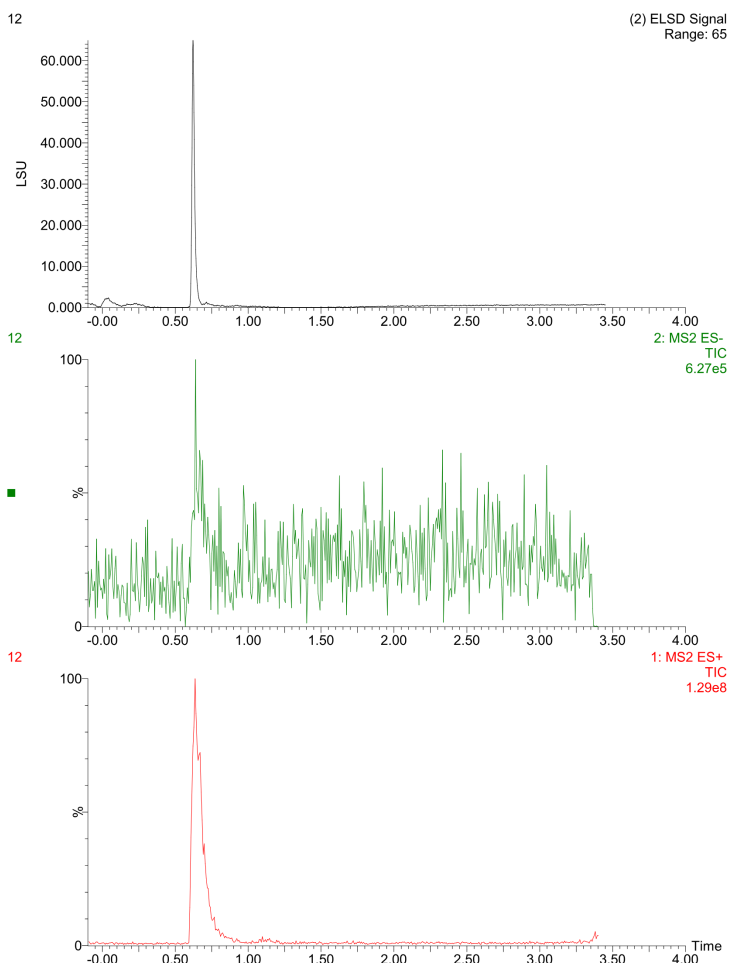


This purity analysis was conducted using UPLC/MS under standard laboratory conditions, following validated analytical protocols to ensure accurate and reliable results. This analysis is intended for informational and research applications.

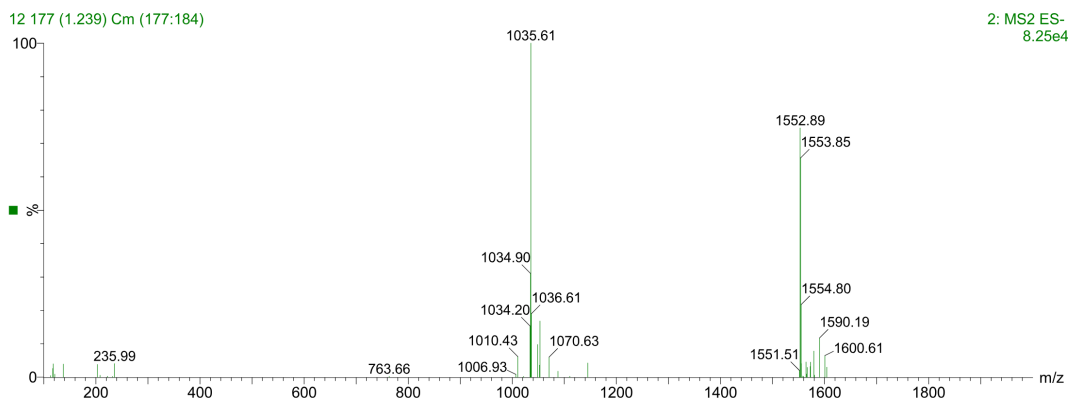
Lot Number: DPS-8269267
 Brand / Distributed by: Iron Within Research
 Identity: www.ironwithinresearch.com

Analysis Date: 07/24/2026
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Thymosin Alpha-1 (10mg) • Pubchem CID: 16130571
 Ultra High Performance Liquid Chromatography (UPLC)



Mass Spectrometry (MS)



Lot Number: [DPS-8269267](#)
Brand / Distributed by: [Iron Within Research](#)
Identity: www.ironwithinresearch.com

Analysis Date: [07/24/2026](#)
Searchable via: horizonanalytical.com

Compound:	Thymosin Alpha-1
Report Number:	1020364
Appearance:	-

CAS:	62304-98-7
Formula:	C ₁₂₉ H ₂₁₅ N ₃₃ O ₅₅
Mol Weight:	~3108.3 g/mol

Pubchem CID: 16130571

Endotoxin Test

	Specification	Result	Scan to Validate:
Compound Test:	Thymosin Alpha-1	Pass	
Endotoxin:	-	< 0.05 EU/mL	

Aleksey Yevtodiyenko PhD
Research and Formulation Chemist



This endotoxin analysis was performed under standard laboratory conditions using validated testing methodologies to ensure accurate and reliable results. The analysis is intended for informational and research purposes only.

Contact at: contact@horizonanalytical.com

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Summit BioAnalytics | Nassau, The Bahamas | lab@summitbioanalytics.com | summitbioanalytics.com

TESTED FOR

Iron Within Research

SAMPLE

Thymosin Alpha 1 — 10 mg

PASS

BATCH #

IWR-2607-TA110

PURITY

99.54%

MASS

10.02 mg

IDENTITY

Confirmed

COA #:

SBA-26-0063

Method:

Full QC Panel

Lot Number:

IWR-2607-TA110

Analysis Date:

2026-08-02

Labeled Content:

10 mg

Date Received:

2026-07-29

Appearance:

White lyophilized powder, intact seal



SCAN TO VERIFY



Identity



Purity



Endotoxins



Fentanyl Free



VIAL CAP

Blue

#0017A8

CLOSURE AS
RECEIVED

Test	Specification	Result
Identity	Thymosin Alpha 1	Confirmed
Purity (HPLC)	>= 98.0%	99.54%
Content (gross)	Report only	10.02 mg
Fentanyl Screen (LC-MS/MS)	Not detected	Not detected
Endotoxins (LAL)	Report Result	0.03 EU/mL

Test	Specification	Result
Sterility Screen (rapid PCR)	No growth	No growth
Heavy Metals (ICP-MS)	ICH Q3D limits	All analytes within limits

Qualitative and quantitative chemical analysis by RP-HPLC with UV detection; identity confirmed by LC-MS. Fentanyl screening by targeted LC-MS/MS. Sterility by rapid nucleic-acid amplification — a screening method, not compendial sterility per USP <71>. Full methodology available on request.

Kasey Malganius

Kasey Malganius
Lab Director
2026-08-02

COA #: SBA-26-0063
Access Code: 5JUEQ972
Analyst: R. Whitfield
Verify: summitbioanalytics.com/verify
Issued: 2026-08-02

Summit BioAnalytics | Nassau, The Bahamas | lab@summitbioanalytics.com
This certificate relates only to the item tested, as received. Research use only — not for human or veterinary use. A not-detected screening result describes this sample only and is not a statement about any other unit or lot.



Client: Iron Within Research
Accession #: 2605060159
Search Code: Iron2605060159
Received: 05/06/2026
Reported: 05/08/2026
Lot: Light Blue Cap

Sample Summary

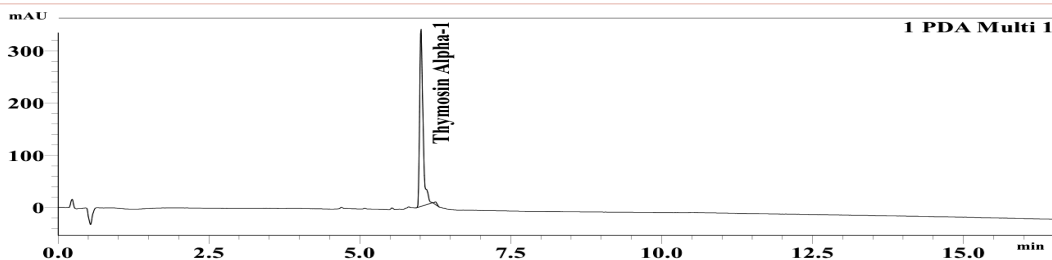
Product:	Thymosin Alpha 5mg	Purity:	99.00%
Identity:	Confirmed	Net Content:	3.41 mg
Appearance:	White Lyophilized Powder		

Analytical Results

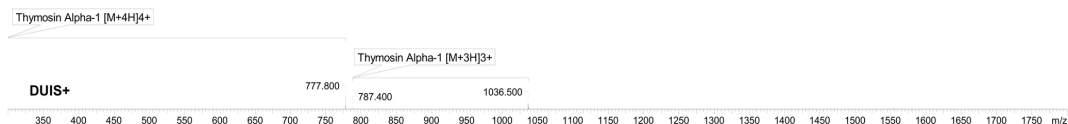
Test	Result
Identity (LC-MS)	Thymosin Alpha-1
Purity (HPLC-UV)	99.00%
Net Content	3.41 mg

Method: HPLC with UV detection coupled with mass spectrometry (LC-MS).

Chromatogram



Mass Confirmation



Alex Johnson

Principal Chemist

FreedomDiagnosticsTesting.com

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The peptide purity analysis reported here was conducted using LCMS/MS under standard laboratory conditions. This analysis is intended for informational purposes only and is specific to the sample(s) provided. The peptides tested are intended for research use only and are not approved for human or veterinary use, diagnostic, therapeutic, or clinical applications. Results should be interpreted by qualified professionals within the scope of the intended research. The accuracy and reliability of the test may be influenced by sample integrity, handling, and other experimental variables.