

CERTIFICATE OF ANALYSIS

COA #: **SD20260820_008_THY10**

SAMPLE INFORMATION

Client	Zentra brands limited	Accession #	SD20260820_008
Compound	Thymosin Alpha-1	Date Received	08/20/2026
Molecular Formula	C129H215N33O55	Date Reported	08/22/2026
Appearance	White lyophilized powder	Labeled Quantity	10mg
Sample Form	Lyophilized Vial	Lot / Batch #	ZC0035
Storage	Room Temp	CAS Number	62304-98-7
Cap Color	Blue		



All Chemical Analysis Performed by LC-MS/MS

ANALYTICAL RESULTS

Test / Analysis	Method	Specification	Result	Status
Identity (Mass Confirmation)	LC-MS/MS	Matches reference mass	Thymosin Alpha-1	Pass
Purity	LC-MS/MS	≥ 95.0%	99.165%	Pass
Net Peptide Content	LC-MS/MS	Report value	10.87 mg	Pass
Observed Molecular Mass	LC-MS	Within ± 1.0 Da	777.7 ([M+3H] ³)	Pass
Theoretical Molecular Mass	Reference	—	3108.31	Pass
Related Substances / Impurities	LC-MS/MS	Report value	Not Detected	Pass
Residual Solvents	LC-MS/MS	Report value	Not Detected	Pass

John Humes, MS. **John Humes, MS.**
Analyzed by · Laboratory Analyst · 08/22/2026

Chetan Soni, PhD. **Chetan Soni, PhD.**
Approved by · Laboratory Director · 08/22/2026

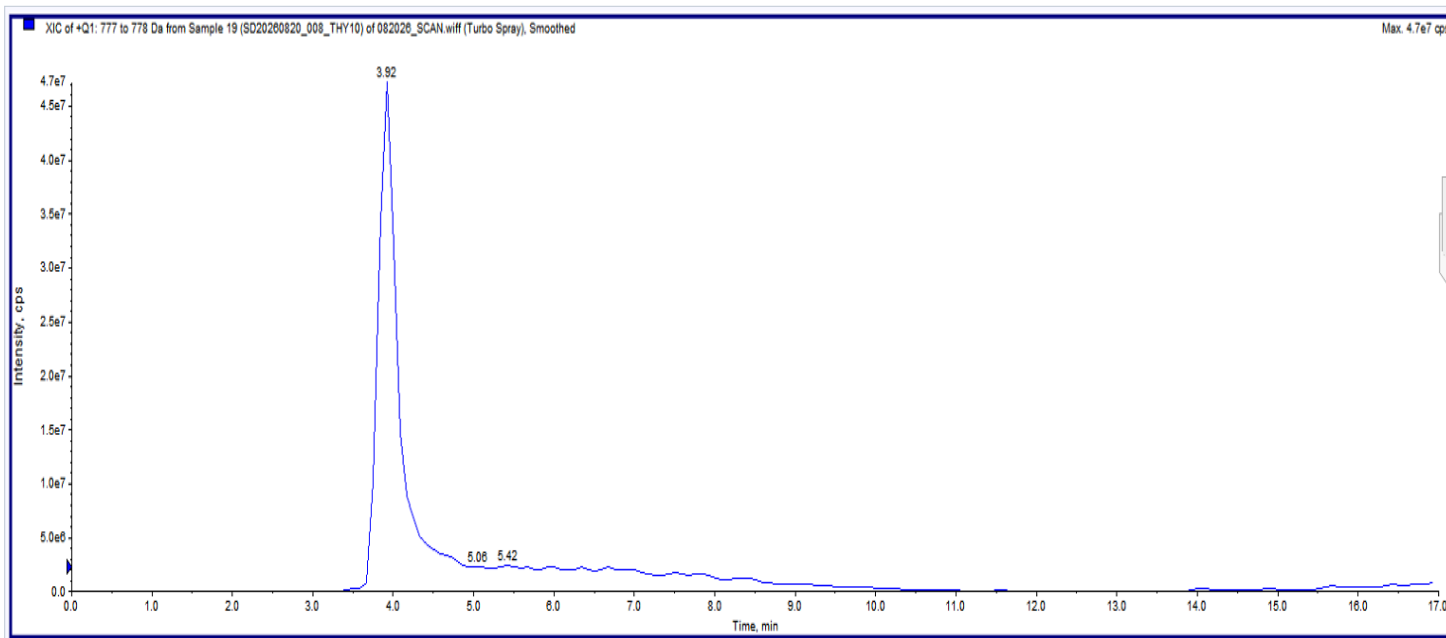
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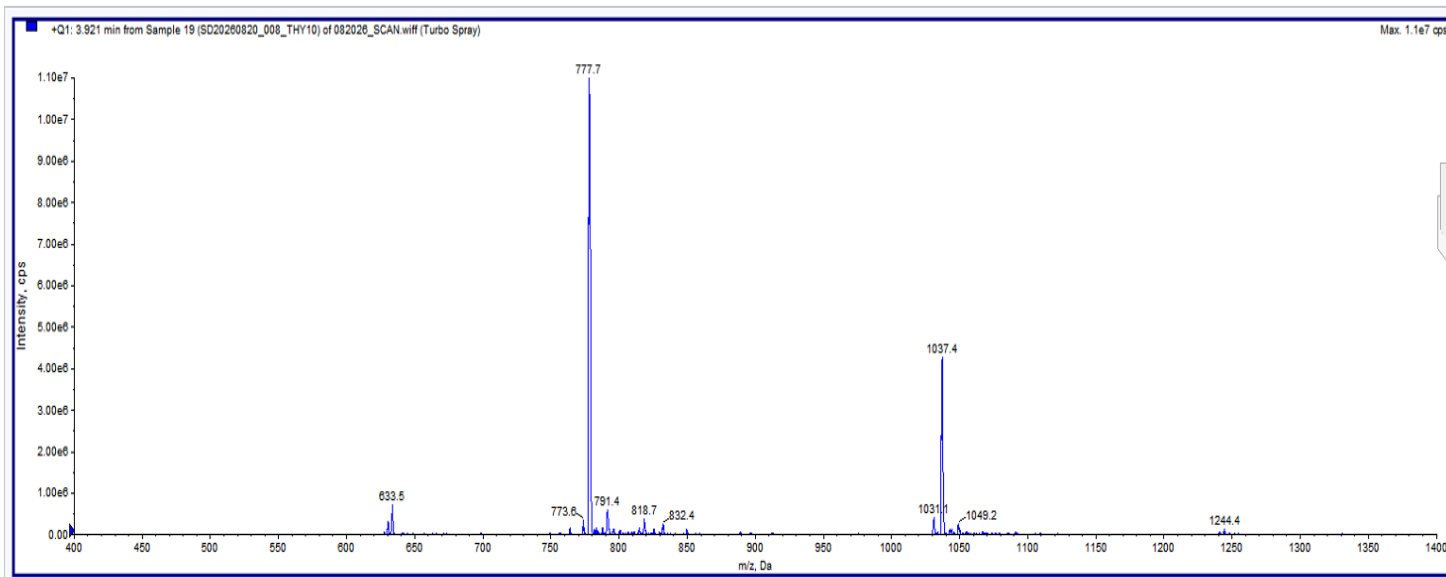
ANALYTICAL DATA

COA #: SD20260820_008_THY10

CHROMATOGRAM



MASS SPECTRUM (LC-MS)



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ANALYTICAL INTERPRETATION

Chromatogram

Retention Time Match

Mass Spectrum (LC-MS)

ThymosinAlpha-1—Identity(Q1MS)

The sample "THY10" was analyzed by LC-MS in positive-mode Q1 full scan at 3.92min. The spectrum shows dominant peptide ions at m/z 777.7 ($[M+3H]^3$), 1037.4 ($[M+2H]^2$), and 1244.4 ($[M+H]$), consistent with the expected charge-state distribution of thymosinAlpha-1. The observed ion pattern and retention time match those of a certified thymosinAlpha-1 reference standard analyzed under identical conditions. These results confirm the identity of the active ingredient as thymosinAlpha-1.

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