

CERTIFICATE OF ANALYSIS

COA #: SD20260804_037_TB10

SAMPLE INFORMATION

Client	Omega Labz	Accession #	SD20260804_037
Compound	TB-500 (Thymosin Beta-4)	Date Received	08/04/2026
Molecular Formula	C212H350N56O78S	Date Reported	08/08/2026
Appearance	White lyophilized powder	Labeled Quantity	10 mg
Sample Form	Lyophilized Vial	Lot / Batch #	TB3568
Storage	Room Temp	CAS Number	77591-33-4
Crimp Color	Yellow		

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	TB-500 (Thymosin Beta-4)	Pass
Purity	LC-MS/MS	≥ 95.0%	99.62 %	Pass
Net Peptide Content	LC-MS/MS	Report value	11.03 mg	Pass
Observed Molecular Mass	LC-MS	Within ± 1.0 Da	828.1 [M+6H]	Pass
Theoretical Molecular Mass	Reference	—	4963.44 Da	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.

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Analyzed by · Laboratory Analyst · 08/08/2026

Chetan Soni, PhD.

Chetan Soni, PhD.

Approved by · Laboratory Director · 08/08/2026

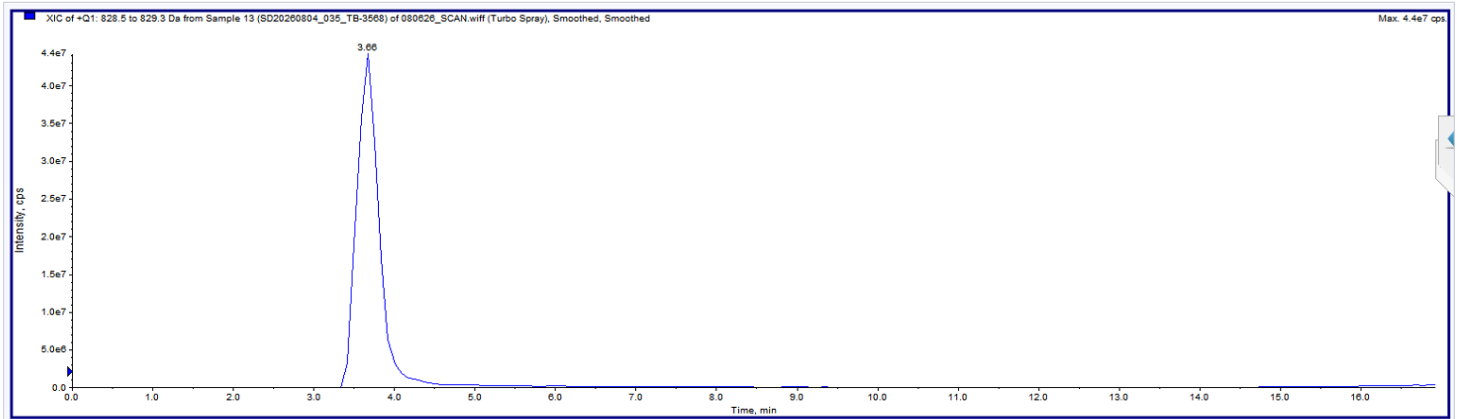
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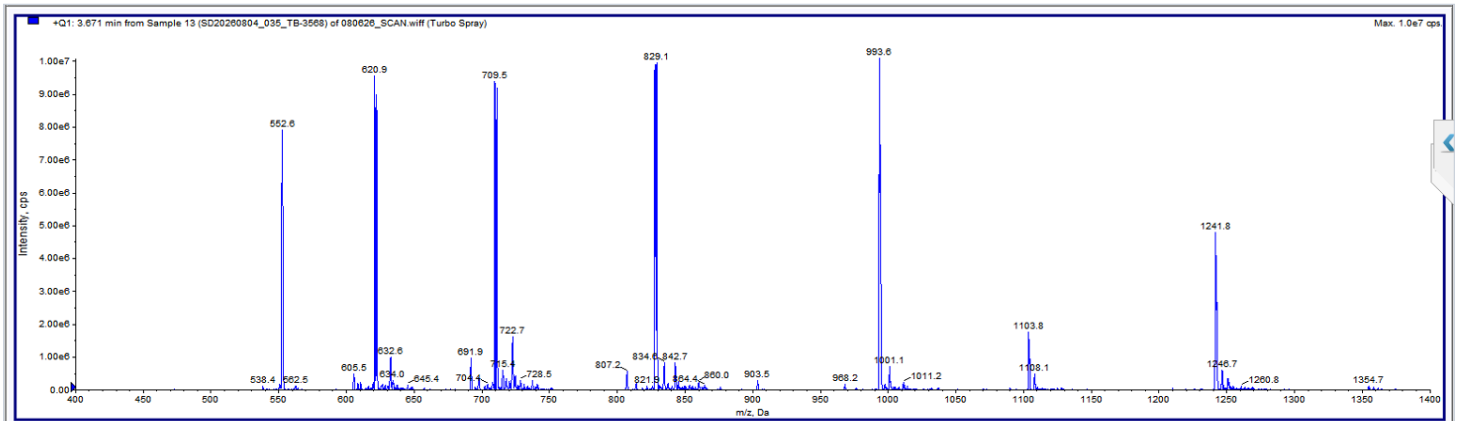
ANALYTICAL DATA

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CHROMATOGRAM



MASS SPECTRUM (LC-MS)



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ANALYTICAL INTERPRETATION

Chromatogram

Retention Time Matches

Mass Spectrum (LC-MS)

Identity (LC MS, Q1 scan – Thymosin Beta):

A positive mode Q1 full scan acquired at 3.67min from the Thymosin Beta sample shows a dominant precursor ion envelope with peaks at m/z 552.6, 620.9, 709.5, 829.1, 993.6, 1103.8, and 1241.8, consistent with the expected multiply charged isotopic distribution of Thymosin Beta under validated LC MS conditions. The observed mass profile aligns with the theoretical precursor ion pattern within tolerance limits, confirming analyte identity.

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