

## CERTIFICATE OF ANALYSIS

COA #: **SD20260804\_038\_TB10**

### SAMPLE INFORMATION

|                          |                          |                         |                |
|--------------------------|--------------------------|-------------------------|----------------|
| <b>Client</b>            | Peptide COA Test LLC     | <b>Accession #</b>      | SD20260804_038 |
| <b>Compound</b>          | TB-500 (Thymosin Beta-4) | <b>Date Received</b>    | 08/04/2026     |
| <b>Molecular Formula</b> | C212H350N56O78S          | <b>Date Reported</b>    | 08/08/2026     |
| <b>Appearance</b>        | White lyophilized powder | <b>Labeled Quantity</b> | 10 mg          |
| <b>Sample Form</b>       | Lyophilized Vial         | <b>Lot / Batch #</b>    | TB7848         |
| <b>Storage</b>           | Room Temp                | <b>CAS Number</b>       | 77591-33-4     |
| <b>Crimp Color</b>       | 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%                | 99.21 %                  | Pass   |
| Net Peptide Content             | LC-MS/MS  | Report value           | 10.46 mg                 | Pass   |
| Observed Molecular Mass         | LC-MS     | Within ± 1.0 Da        | 828.0 [M+6H]             | Pass   |
| Theoretical Molecular Mass      | Reference | —                      | 4963.44 Da               |        |
| 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 · 08/08/2026

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

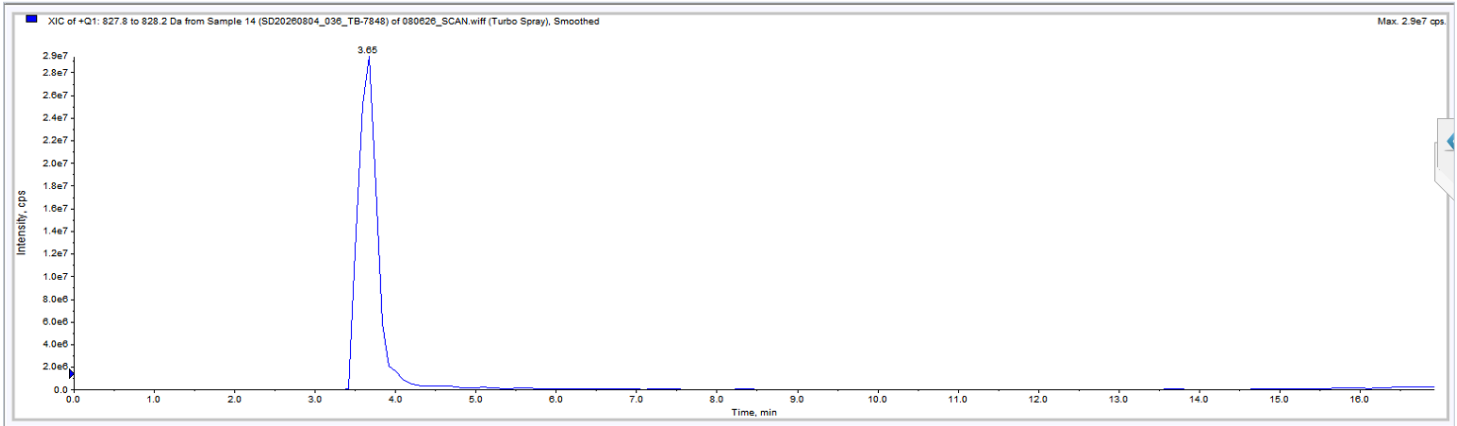
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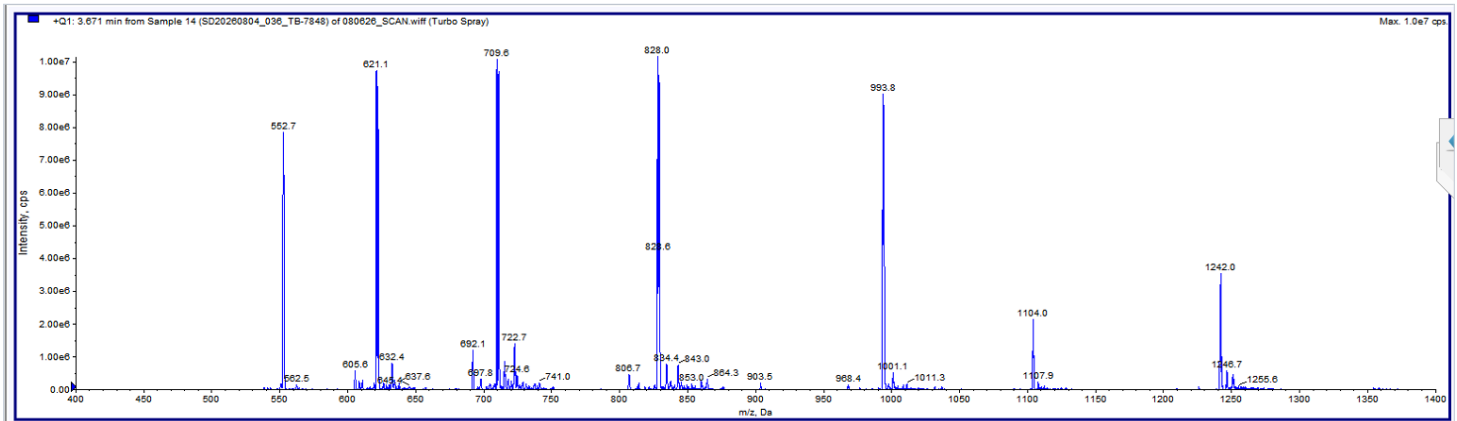
## ANALYTICAL DATA

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### CHROMATOGRAM



### MASS SPECTRUM (LC-MS)



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## ANALYTICAL INTERPRETATION

### Chromatogram

Retention Time Match

### 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  $m/z$  552.7, 621.1, 709.6, 828.0, 993.8, 1104.0, and 1242.0, 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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