

## CERTIFICATE OF ANALYSIS

COA #: SD20260804\_017\_SS31-50

## SAMPLE INFORMATION

|                    |                      |               |                          |
|--------------------|----------------------|---------------|--------------------------|
| Client             | Omega Labz           | Accession #   | SD20260804_017           |
| Compound           | SS-31 (Elamipretide) | Date Received | 08/04/2026               |
| Molecular Formula  | C32H49N5O5           | Date Reported | 08/07/2026               |
| Counter Ion / Salt | NA                   | Appearance    | White lyophilized powder |
| Labeled Quantity   | 50 mg                | Sample Form   | Lyophilized Vial         |
| Lot / Batch #      | SS4876               | Storage       | Room Temp                |
| CAS Number         | 736992-21-5          | Crimp 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 | SS-31 (Elamipretide)    | Pass   |
| Purity                          | LC-MS/MS  | ≥ 95.0%                | 99.58 %                 | Pass   |
| Net Peptide Content             | LC-MS/MS  | Report value           | 53.16 mg                | Pass   |
| Observed Molecular Mass         | LC-MS     | Within ± 1.0 Da        | 640.3 [M+H]             | Pass   |
| Theoretical Molecular Mass      | Reference | —                      | 639.8 g/mol (free base) | 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 · 08/07/2026

Chetan Soni, PhD.

Chetan Soni, PhD.

Approved by · Laboratory Director · 08/07/2026

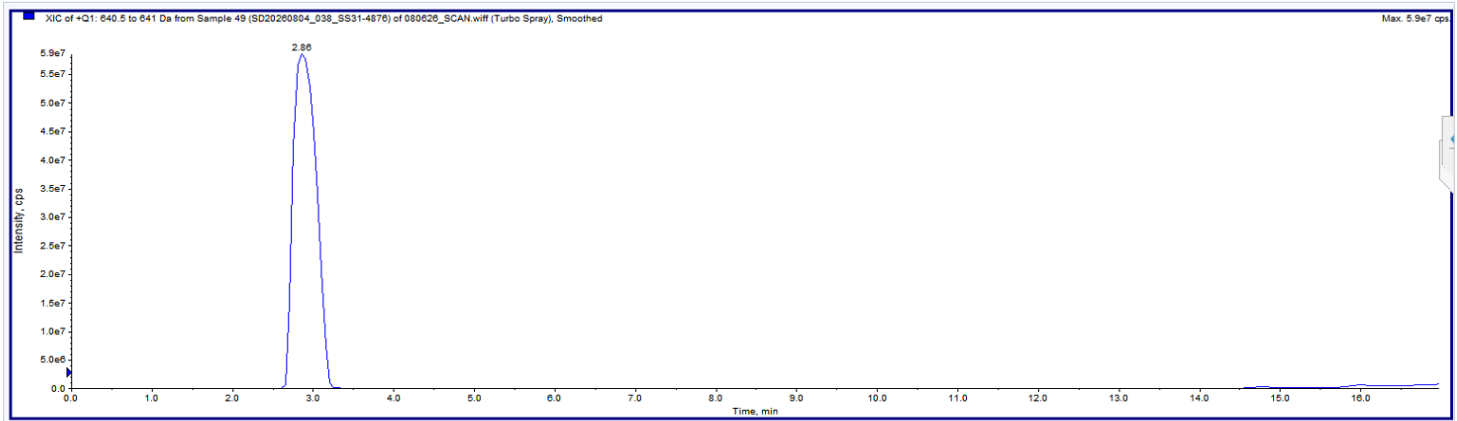
## IMPORTANT NOTICE - FOR RESEARCH USE ONLY

This Certificate of Analysis is provided for informational and research purposes only. The sample(s) tested are intended solely for in vitro research, laboratory experimentation, and analytical reference use - not for human or animal consumption, medical diagnosis, therapeutic application, or any clinical use. Results apply only to the specific sample(s) submitted and tested. Unauthorized reproduction of this document is prohibited without written approval from Sonic Laboratories.

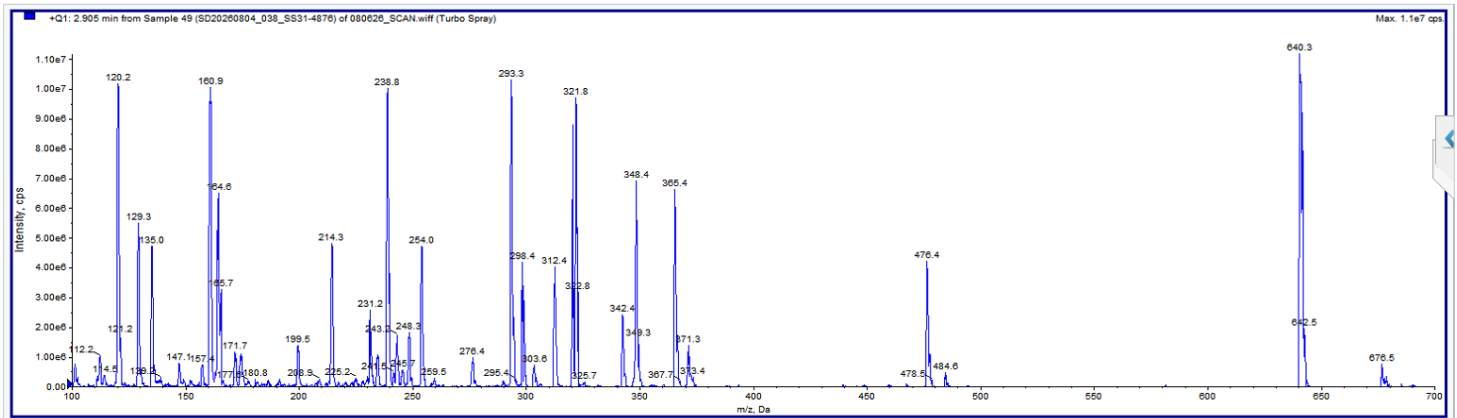
## ANALYTICAL DATA

COA #: SD20260804\_017\_SS31-50

### CHROMATOGRAM



### MASS SPECTRUM (LC-MS)



*John Humes, MS.*

**John Humes, MS.**

Analyzed by · Laboratory Analyst · 08/07/2026

*Chetan Soni, PhD.*

**Chetan Soni, PhD.**

Approved by · Laboratory Director · 08/07/2026

#### IMPORTANT NOTICE - FOR RESEARCH USE ONLY

This Certificate of Analysis is provided for informational and research purposes only. The sample(s) tested are intended solely for in vitro research, laboratory experimentation, and analytical reference use - not for human or animal consumption, medical diagnosis, therapeutic application, or any clinical use. Results apply only to the specific sample(s) submitted and tested. Unauthorized reproduction of this document is prohibited without written approval from Sonic Laboratories.

---

## ANALYTICAL INTERPRETATION

### Chromatogram

Retention Time Match

### Mass Spectrum (LC-MS)

Identity (LC-MS, Q1 scan – SS-31):

A positive-mode Q1 full scan of the SS-31 sample shows a precursor ion envelope consistent with the expected charge-state distribution for Elamipretide (MW  $\approx$  639.8Da). Dominant ions are observed at approximately  $m/z$  640.3 (+1), 321.8 (+2), and 214.3 (+3), representing the characteristic multiply charged isotopic pattern of SS-31 under validated LC-MS conditions. The observed mass profile aligns with the theoretical precursor ion distribution within established tolerance limits, confirming analyte identity.

---

*John Humes, MS.* **John Humes, MS.**  
Analyzed by · Laboratory Analyst · 08/07/2026

*Chetan Soni, PhD.* **Chetan Soni, PhD.**  
Approved by · Laboratory Director · 08/07/2026

### IMPORTANT NOTICE - FOR RESEARCH USE ONLY

This Certificate of Analysis is provided for informational and research purposes only. The sample(s) tested are intended solely for in vitro research, laboratory experimentation, and analytical reference use - not for human or animal consumption, medical diagnosis, therapeutic application, or any clinical use. Results apply only to the specific sample(s) submitted and tested. Unauthorized reproduction of this document is prohibited without written approval from Sonic Laboratories.