PEPTIDE COA TEST

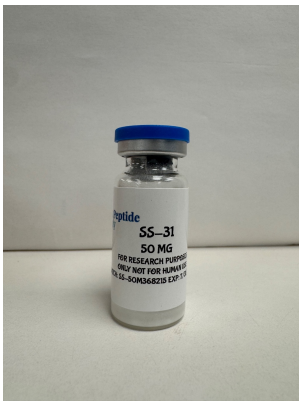
Analytical Testing Laboratory
7271 Engle Rd Unit 201A, Middleburg Heights, OH 44130
sonic-laboratories.com
Verify at sonic-laboratories.com/coa-lookup **Code: 3UYVLG2F**

CERTIFICATE OF ANALYSIS

COA #: **SD20260804_016_SS31-50**

SAMPLE INFORMATION

Client	Peptide COA Test LLC	**Accession #**	SD20260804_016
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 #	SS7586	**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%	99.49%	**Pass**
Net Peptide Content	LC-MS/MS	Report value	52.64 mg	**Pass**
Observed Molecular Mass	LC-MS	Within ± 1.0 Da	640.7 [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

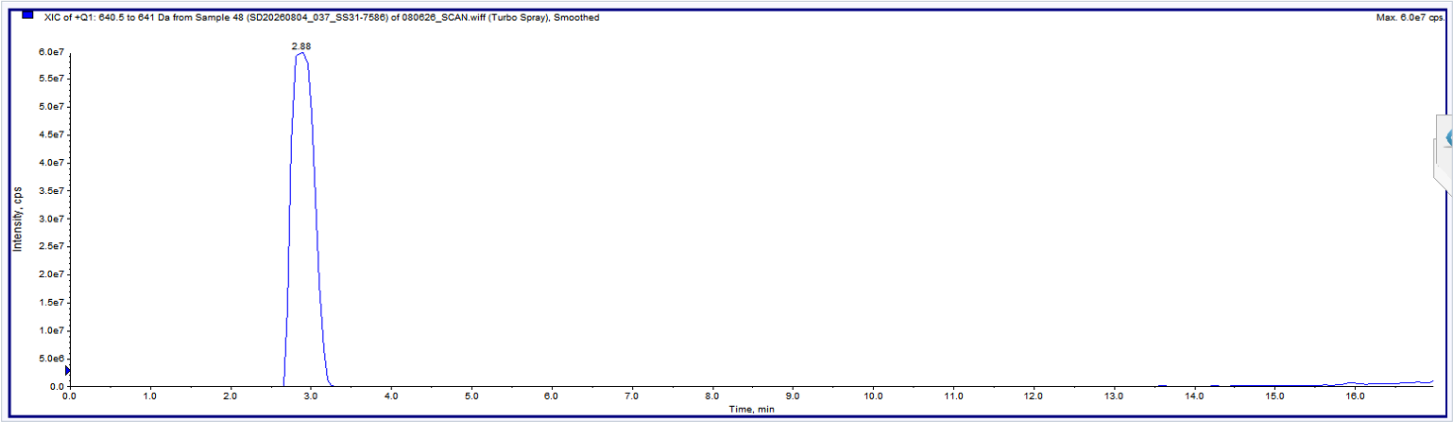
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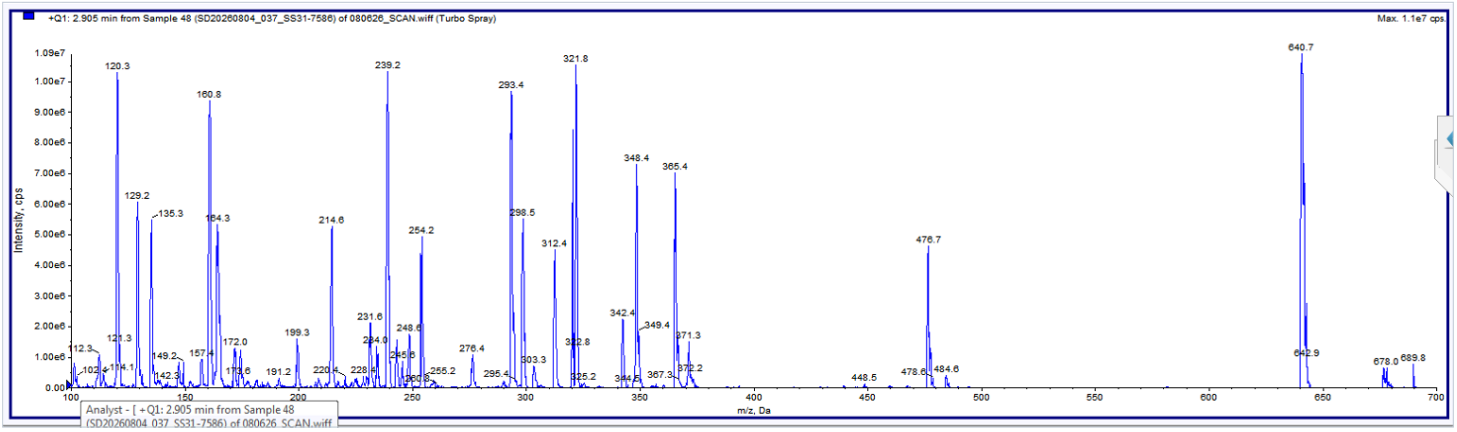
ANALYTICAL DATA

COA #: **SD20260804_016_SS31-50**

CHROMATOGRAM



MASS SPECTRUM (LC-MS)



John Humes, MS.

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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 ≈ 639.8Da). Dominant ions are observed at approximately m/z640.7 (+1), 321.8 (+2), and 214.6 (+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

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