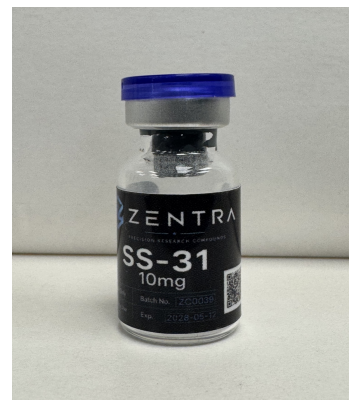


CERTIFICATE OF ANALYSIS

COA #: **SD20260820_011_SS31**

SAMPLE INFORMATION

Client	Zentra brands limited	Accession #	SD20260820_011
Compound	SS-31 (Elamipretide)	Date Received	08/20/2026
Molecular Formula	C32H49N5O5	Date Reported	08/22/2026
Appearance	White lyophilized powder	Labeled Quantity	10mg
Sample Form	Lyophilized Vial	Lot / Batch #	ZC0039
Storage	Room Temp	CAS Number	736992-21-5
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	SS-31 (Elamipretide)	Pass
Purity	LC-MS/MS	≥ 95.0%	99.62%	Pass
Net Peptide Content	LC-MS/MS	Report value	11.28 mg	Pass
Observed Molecular Mass	LC-MS	Within ± 1.0 Da	640 [M+H]	Pass
Theoretical Molecular Mass	Reference	—	639.45Da	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

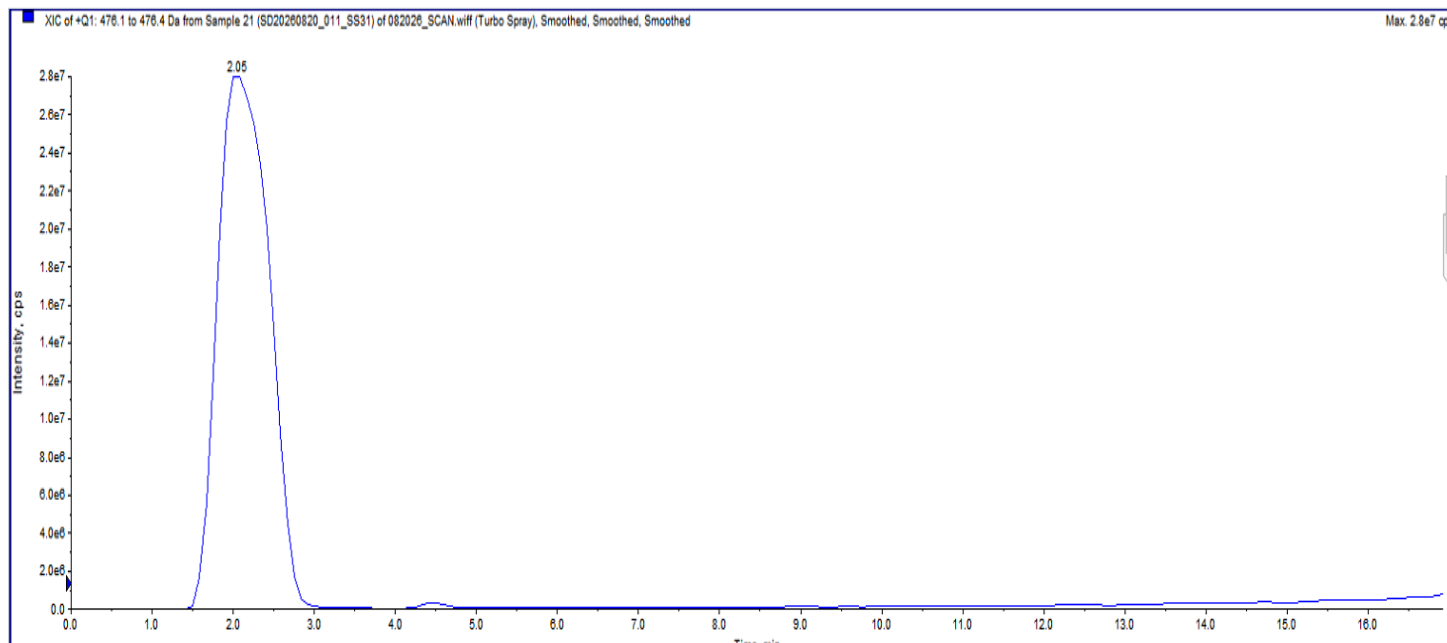
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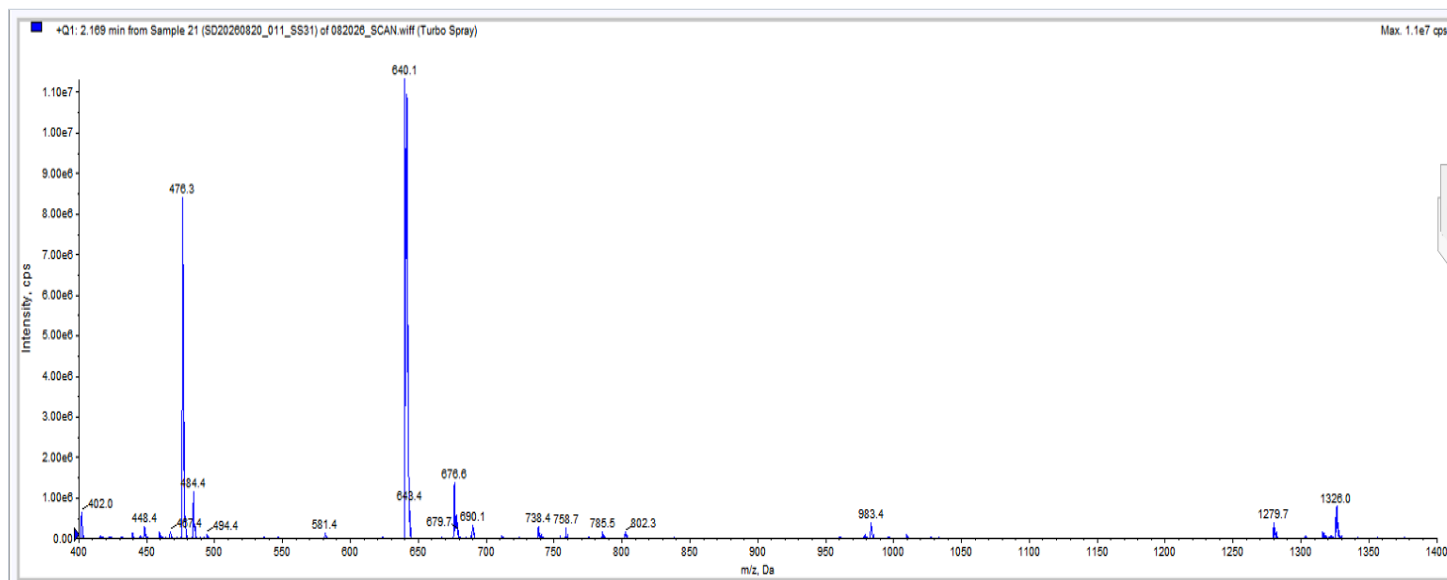
ANALYTICAL DATA

COA #: **SD20260820_011_SS31**

CHROMATOGRAM



MASS SPECTRUM (LC-MS)



John Humes, MS.

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Analyzed by · Laboratory Analyst · 08/22/2026

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ANALYTICAL INTERPRETATION

Chromatogram

Retention Time match

Mass Spectrum (LC-MS)

SS-31 Peptide — Identity (Q1 MS)

The sample "SS-31" was analyzed by LC-MS in positive-mode Q1 full scan at RT=2.169 min. The mass spectrum at this retention time shows a dominant precursor ion at m/z 640.1, corresponding to the $[M+H]^+$ molecular ion of SS-31. Additional ions at m/z 678.6 and m/z 690.1 are consistent with adduct and isotopic species related to the parent peptide.

The spectrum also contains supporting fragment and related ions at m/z 402.0, 448.4, 476.3, 494.4, 581.4, 738.4, 758.7, 785.5, 802.3, 873.9, 983.4, 1279.7, and 1328.0, which together form a pattern characteristic of SS-31 under the conditions used.

The retention time and ion profile match those of an SS-31 reference standard analyzed under identical conditions.

Result: Identity by LC-MS Q1 full scan — Confirmed (SS-31 detected).

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

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