Analytical Testing Laboratory
7271 Engle Rd Unit 201A, Middleburg Heights, OH 44130
sonic-laboratories.com
Verify at sonic-laboratories.com/coa-lookup **Code: CQS7DBSE**

CERTIFICATE OF ANALYSIS

COA #: **SD20260928_001_RT40**

SAMPLE INFORMATION

Client	Peptigenesis	**Accession #**	SD20260928_001
Compound	Retatrutide	**Date Received**	09/28/2026
Molecular Formula	C221H342N46O68	**Date Reported**	10/01/2026
Appearance	Clear solution	**Labeled Quantity**	40mg
Sample Form	Solution	**Lot / Batch #**	1101
Storage	Room Temp	**CAS Number**	2381089-83-2
Cap Color	No cap / N/A		



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	Retatrutide	**Pass**
Purity	LC-MS/MS	≥ 95.0%	99.12%	**Pass**
Net Peptide Content	LC-MS/MS	Report value	N/A	N/A
Observed Molecular Mass	LC-MS	Within ± 1.0 Da	1183.9m/z — $[M+4H]^{4}$	**Pass**
Theoretical Molecular Mass	Reference	—	4731.35	**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 · 10/01/2026

Chetan Soni, PhD. **Chetan Soni, PhD.**
Approved by · Laboratory Director · 10/01/2026

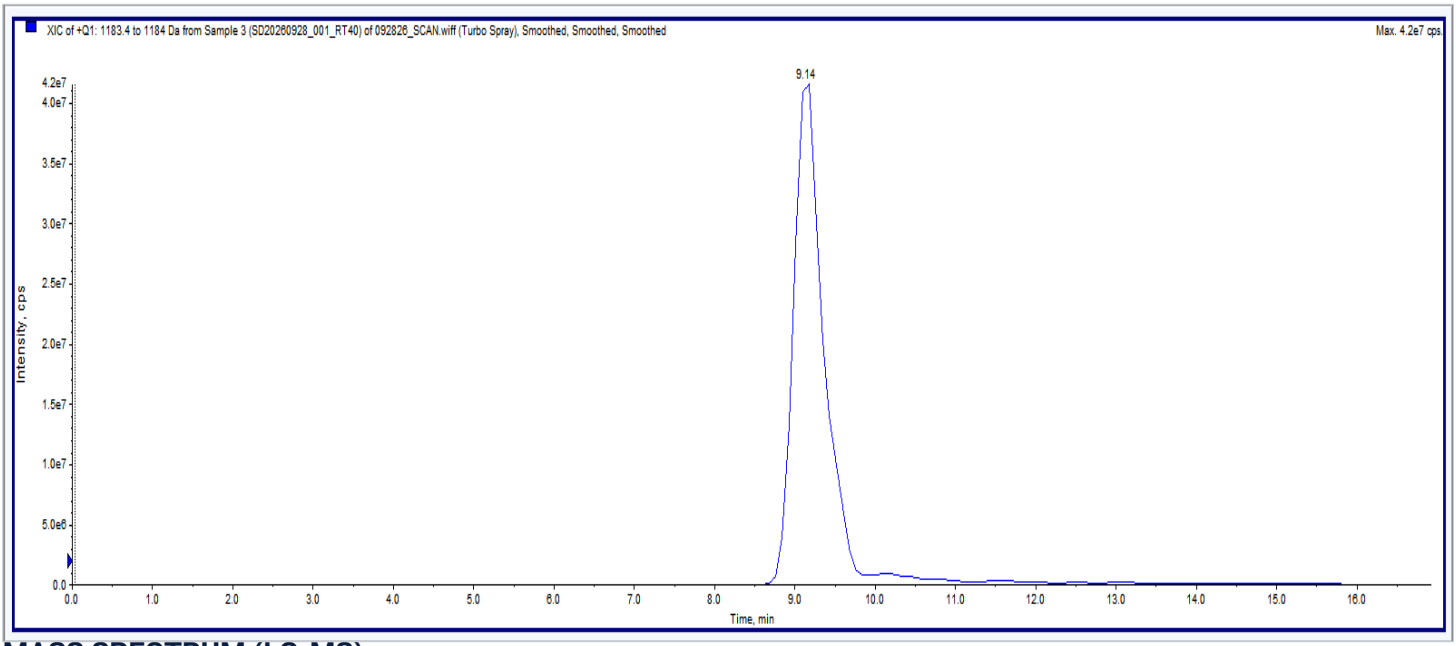
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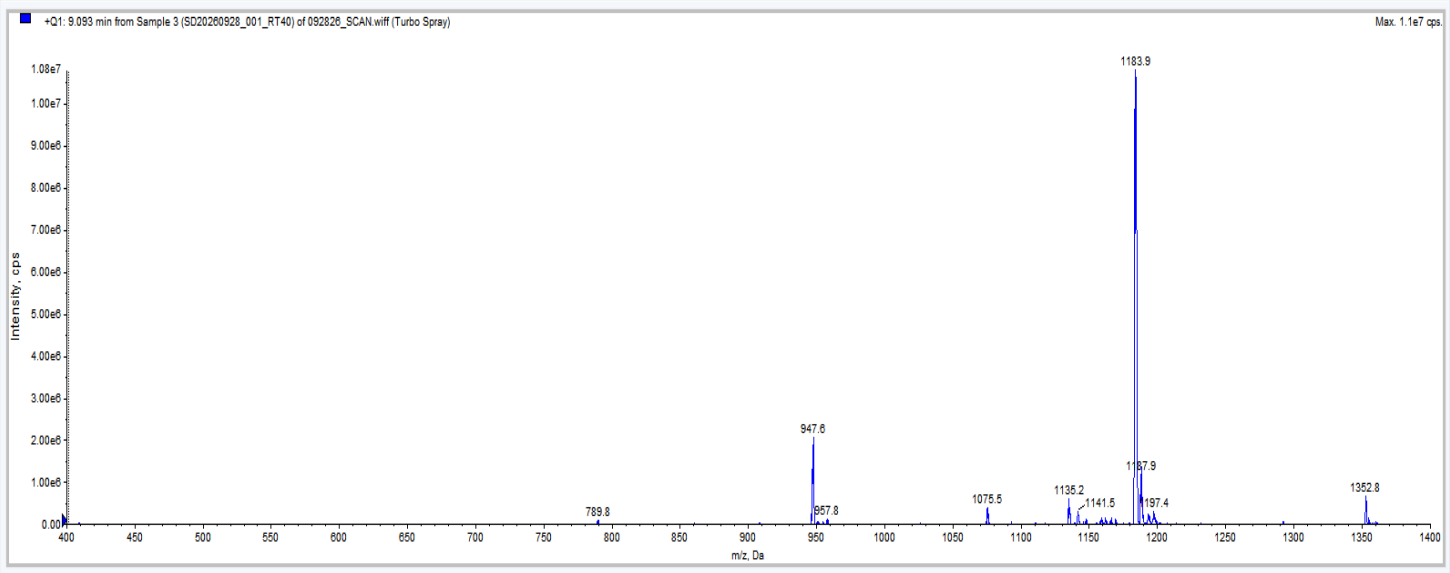
ANALYTICAL DATA

COA #: **SD20260928_001_RT40**

CHROMATOGRAM



MASS SPECTRUM (LC-MS)



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ANALYTICAL INTERPRETATION

Chromatogram

Retention Time Match

Mass Spectrum (LC-MS)

Analyte: Retatrutide
Sample ID: SD20260928_001_RT40
Method: LC-MS, positive-mode Q1 full scan, TurboSpray ionization
Retention Time: 9.140min

Q1 scan interpretation
The Q1 full-scan spectrum at 9.1440min shows a multiply charged peptide envelope consistent with Retatrutide, with a regular charge-state ladder centered on 1183.9 m/z as $[M+4H]^4$, and supporting higher and lower charge states. The isotopic spacing and adduct pattern at this retention time match the expected LC-MS identity profile for Retatrutide under the validated method.

Observed ions and charge states
947.6m/z — [M+5H]

957.6m/z — [M+5H] (isotopic/adduct variant)

1183.9m/z — $[M+4H]^4$ (dominant precursor)

1188.3m/z — $[M+4H]^4$ (isotopic peak)

1197.4m/z — $[M+4H+Na]^4$ (sodium adduct)

1352.8m/z — $[M+3H]^3$ (lower-charge species)

No distinct 2+ or 1+ envelope is observed at this retention time; the signal is confined to the 5+3+ ladder and associated adducts.

Identity conclusion
Identity by LC-MS Q1 full scan — Retatrutide confirmed.
The observed 5+3+ charge-state ladder centered on $[M+4H]^4$ at 1183.5m/z at 9.14min is consistent with the validated LC-MS identity pattern for Retatrutide, with no non-correlated peptide envelopes present at this retention time.

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