

CERTIFICATE OF ANALYSIS

COA #: SD20260804_027_SX10

SAMPLE INFORMATION

Client	Omega Labz	Accession #	SD20260804_027
Compound	Semax	Date Received	08/04/2026
Molecular Formula	C37H51N9O10S	Date Reported	08/07/2026
Counter Ion / Salt	NA	Appearance	White lyophilized powder
Labeled Quantity	10 mg	Sample Form	Vial
Lot / Batch #	SX97654	Storage	Room Temp
CAS Number	80714-61-0	Crimp Color	Orange

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	Semax	Pass
Purity	LC-MS/MS	≥ 95.0%	99.52%	Pass
Net Peptide Content	LC-MS/MS	Report value	10.82 mg	Pass
Observed Molecular Mass	LC-MS	Within ± 1.0 Da	816.5 [M+H]	Pass
Theoretical Molecular Mass	Reference	—	813.92 Da	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.

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Analyzed by · Laboratory Analyst · 08/07/2026

Chetan Soni, PhD.

Chetan Soni, PhD.

Approved by · Laboratory Director · 08/07/2026

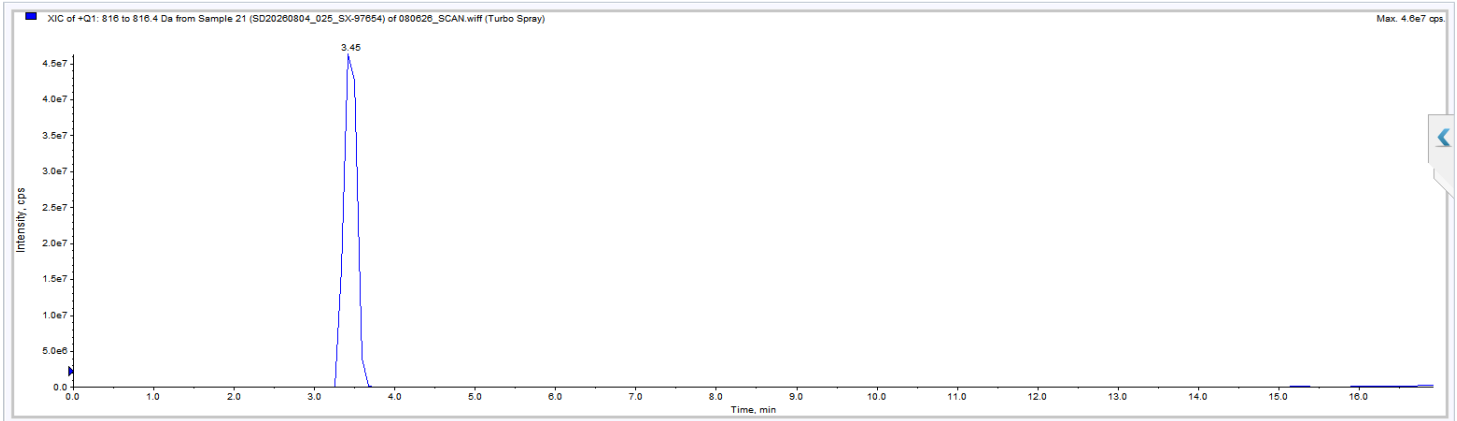
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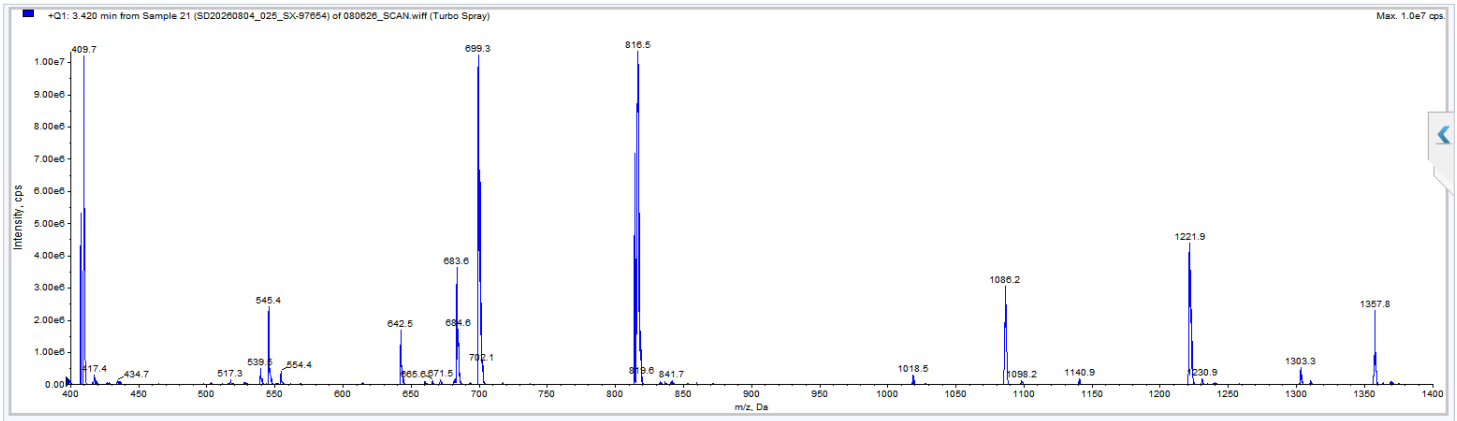
ANALYTICAL DATA

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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 -Semax):

A positive mode Q1 full scan acquired at 3.42min from the Semax sample shows a dominant precursor ion envelope with peaks at m/z 816.5, 699.3, and 409.7. These ions represent the expected multiply charged isotopic and adduct distribution of Semax 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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