

CERTIFICATE OF ANALYSIS

COA #: **SD20260829_014_KIS10**

SAMPLE INFORMATION

Client	Zentra Brands Limited	Accession #	SD20260829_014
Compound	Kisspeptin-10	Date Received	08/28/2026
Molecular Formula	C63H83N17O14	Date Reported	09/01/2026
Appearance	White lyophilized powder	Labeled Quantity	10mg
Sample Form	Lyophilized Vial	Lot / Batch #	ZC0026
Storage	Room Temp	CAS Number	374675-21-5
Cap Color	Green		



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	Kisspeptin-10	Pass
Purity	LC-MS/MS	≥ 95.0%	99.67 %	Pass
Net Peptide Content	LC-MS/MS	Report value	11.21 mg	Pass
Observed Molecular Mass	LC-MS	Within ± 1.0 Da	869.6([M+3H] ³⁺)	Pass
Theoretical Molecular Mass	Reference	—	1308.74 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. **John Humes, MS.**
Analyzed by · Laboratory Analyst · 09/01/2026

Chetan Soni, PhD. **Chetan Soni, PhD.**
Approved by · Laboratory Director · 09/01/2026

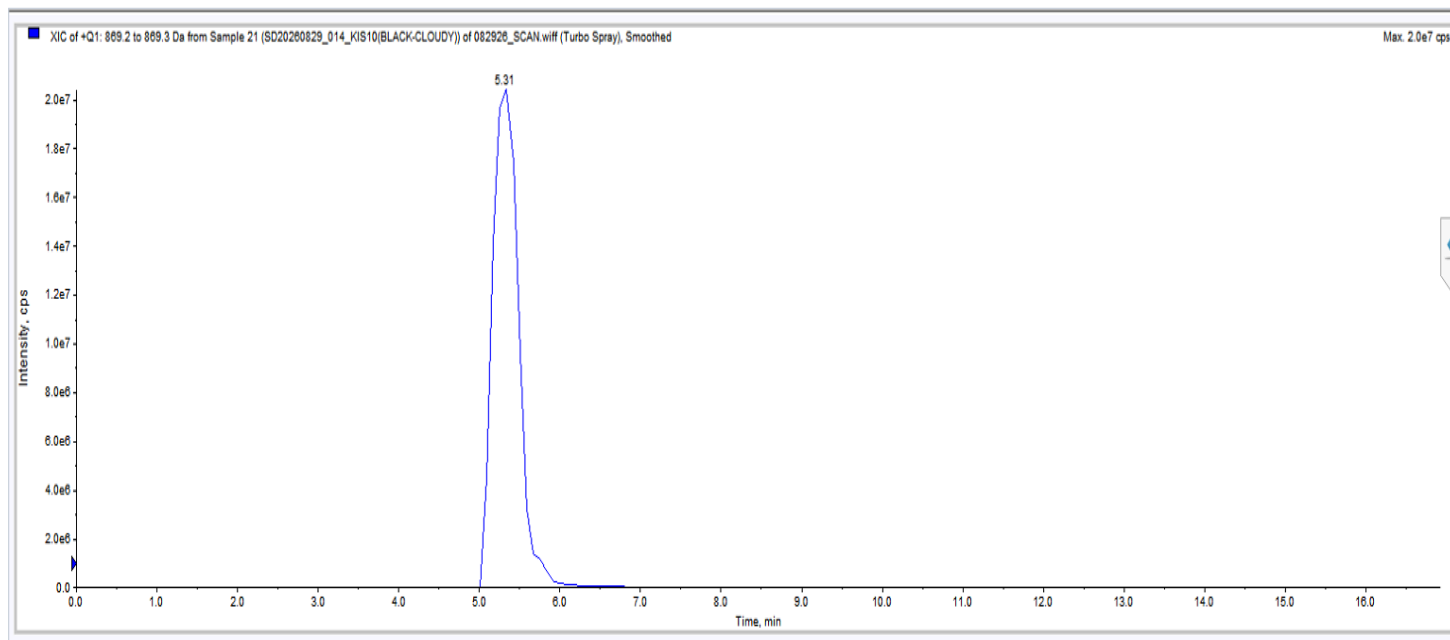
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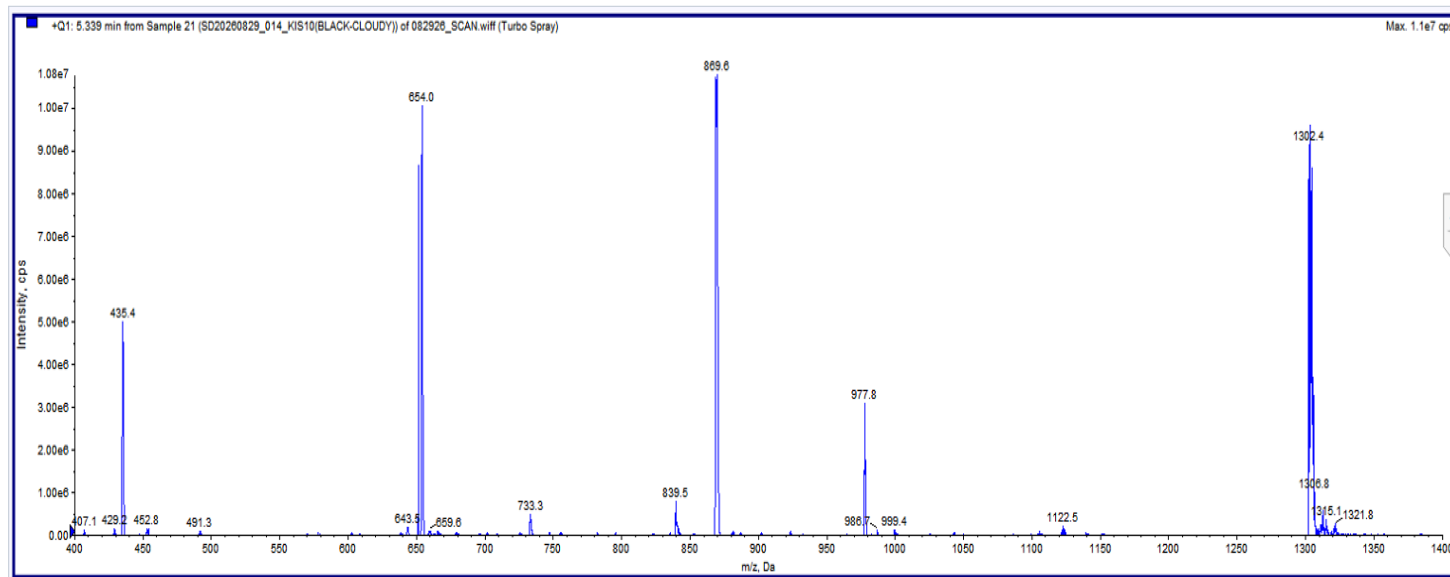
ANALYTICAL DATA

COA #: SD20260829_014_KIS10

CHROMATOGRAM



MASS SPECTRUM (LC-MS)



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ANALYTICAL INTERPRETATION

Chromatogram

Retention Time Match

Mass Spectrum (LC-MS)

Analyte: Kisspeptin-10

Sample ID: SD20260829_014_KIS10

Method (Identity): LC-MS, positive-mode Q1 full scan, TurboSpray ionization

Retention time: 5.339min

The Q1 full-scan spectrum at 5.339min shows a characteristic peptide charge-state envelope with major ions at $m/z \approx 654.0$ ($[M+4H]^4$), 869.6 ($[M+3H]^3$), and 1302.4 ($[M+2H]^2$), consistent with the expected multiply protonated species of Kisspeptin-10 (MW $\approx$ 1308Da). Secondary ions at $m/z \approx 435.4$ ($[M+5H]$), 733.3 ($[M+4H+Na]^4$), 839.5 ($[M+3H+Na]^3$), 977.8 ($[M+3H+K]^3$), and 1321.8 ($[M+H]$) correspond to adducts and higher charge states. The isotopic distribution and charge-state spacing confirm a multiply protonated peptide species typical of Kisspeptin-10 under positive-mode ESI conditions.

Interpretation: Identity by LC-MS Q1 full scan — Confirmed (Kisspeptin-10 detected; Q1 profile consistent with reference standard)

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