

CERTIFICATE OF ANALYSIS

COA #: **SD20260820_005_OXY10**

SAMPLE INFORMATION

Client	Zentra brands limited	Accession #	SD20260820_005
Compound	Oxytocin	Date Received	08/20/2026
Molecular Formula	C43H66N12O12S2	Date Reported	08/22/2026
Appearance	White lyophilized powder	Labeled Quantity	10mg
Sample Form	Lyophilized Vial	Lot / Batch #	ZC0033
Storage	Room Temp	CAS Number	50-56-6
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	Oxytocin	Pass
Purity	LC-MS/MS	≥ 95.0%	99.351%	Pass
Net Peptide Content	LC-MS/MS	Report value	11.06 mg	Pass
Observed Molecular Mass	LC-MS	Within ± 1.0 Da	505.6, [M+2H] ²	Pass
Theoretical Molecular Mass	Reference	—	1007.19	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

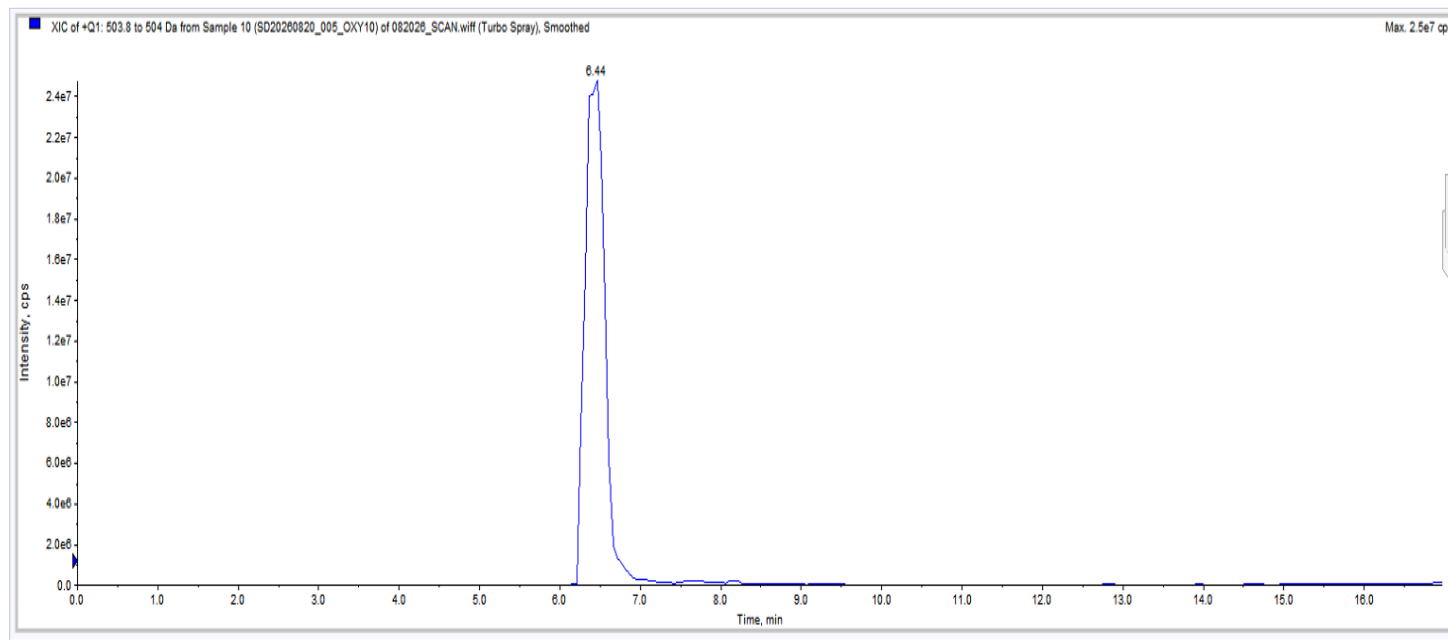
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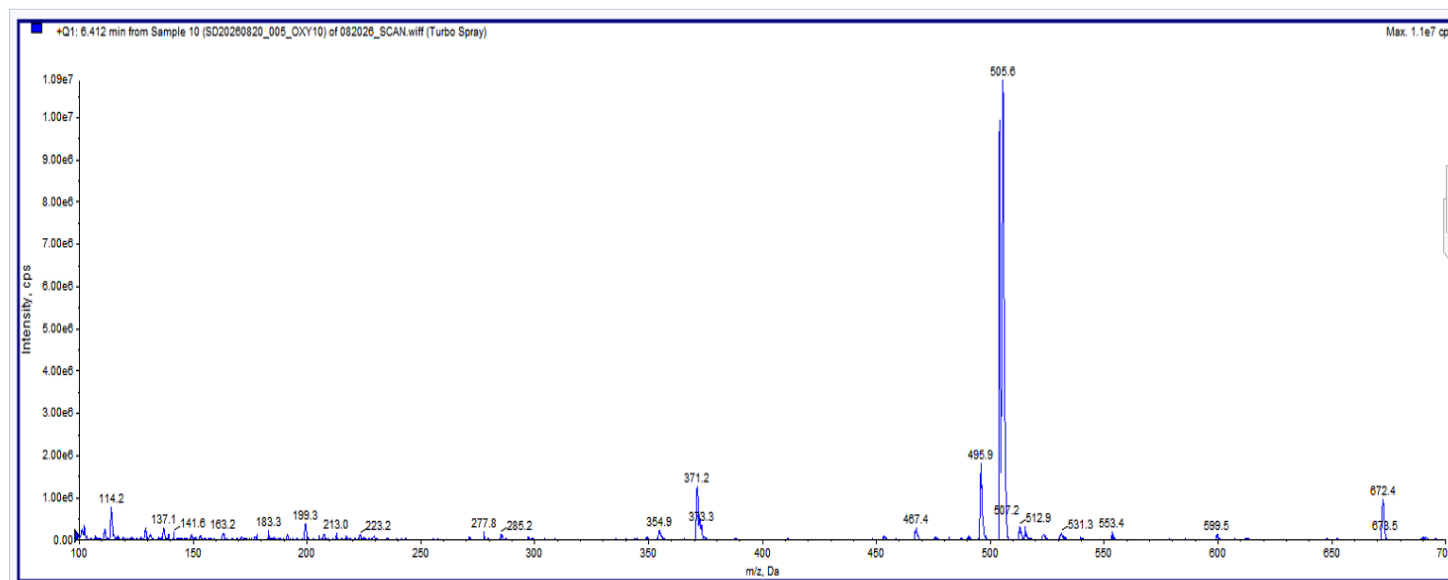
ANALYTICAL DATA

COA #: **SD20260820_005_OXY10**

CHROMATOGRAM



MASS SPECTRUM (LC-MS)



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ANALYTICAL INTERPRETATION

Chromatogram

Retention Time Match

Mass Spectrum (LC-MS)

Oxytocin — Identity/Purity (Q1 MS)

The sample "OXY10" was analyzed by LC-MS in positive-mode Q1 full scan at RT=6.412min. The mass spectrum at this retention time shows a dominant ion at m/z 505.6, consistent with the $[M+2H]^2$ charge state of oxytocin (monoisotopic mass ≈ 1007 Da). Additional ions at m/z 495.9, 505.6, 507.2, 512.9, 531.3, 553.4, 599.5, 672.4, and 678.5 form a reproducible pattern of related and fragment ions typical of oxytocin under the conditions used. No significant alternative peptide-like molecular ions are observed at the oxytocin retention time, supporting a high degree of purity.

Result: Identity by LC-MS Q1 full scan — Confirmed (Oxytocin detected); Q1 profile consistent with high purity.

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