

CERTIFICATE OF ANALYSIS

COA #: **SD20260829_010_5AMINO5**

SAMPLE INFORMATION

Client	Zentra Brands Limited	Accession #	SD20260829_010
Compound	5-Amino-1MQ	Date Received	08/28/2026
Molecular Formula	C10H11N2+	Date Reported	09/01/2026
Appearance	Tan lyophilized powder	Labeled Quantity	5mg
Sample Form	Lyophilized Vial	Lot / Batch #	ZC0023
Storage	Room Temp	CAS Number	N/A
Cap Color	Clear		



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	5-Amino-1MQ	Pass
Purity	LC-MS/MS	≥ 95.0%	99.362 %	Pass
Net Peptide Content	LC-MS/MS	Report value	5.47 mg	Pass
Observed Molecular Mass	LC-MS	Within ± 1.0 Da	173.0 [M+H]	Pass
Theoretical Molecular Mass	Reference	—	173.089 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

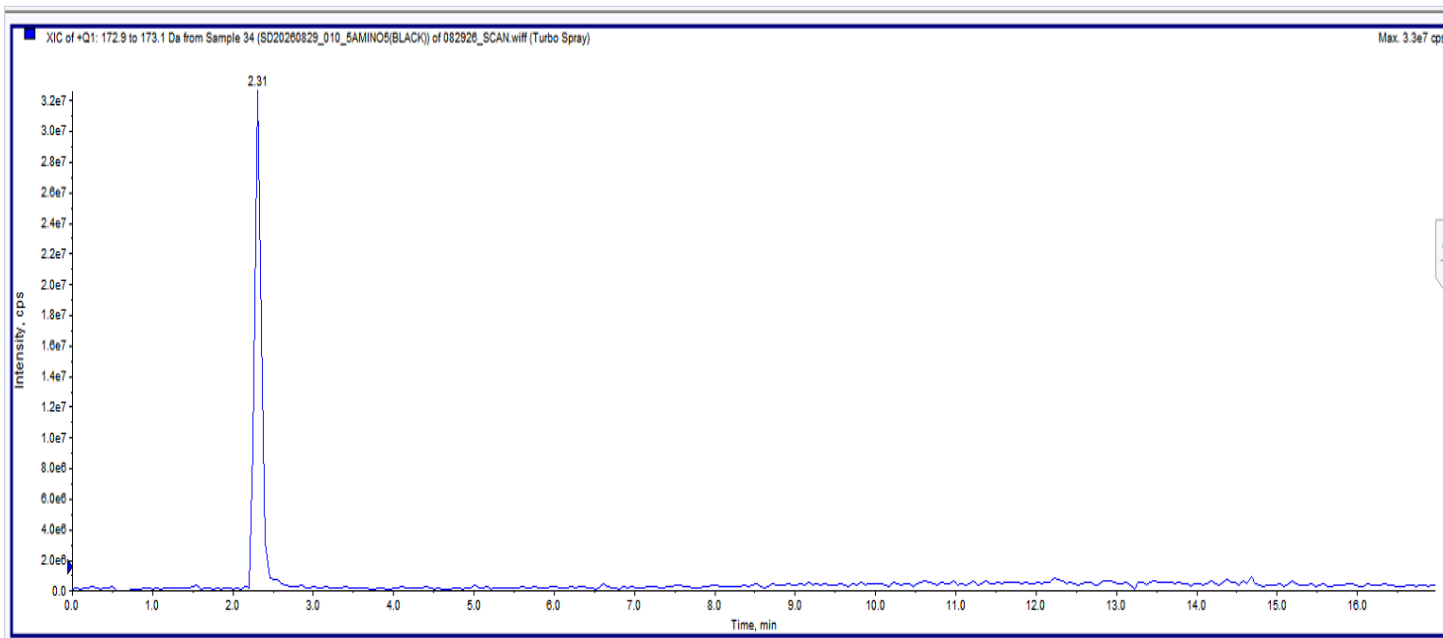
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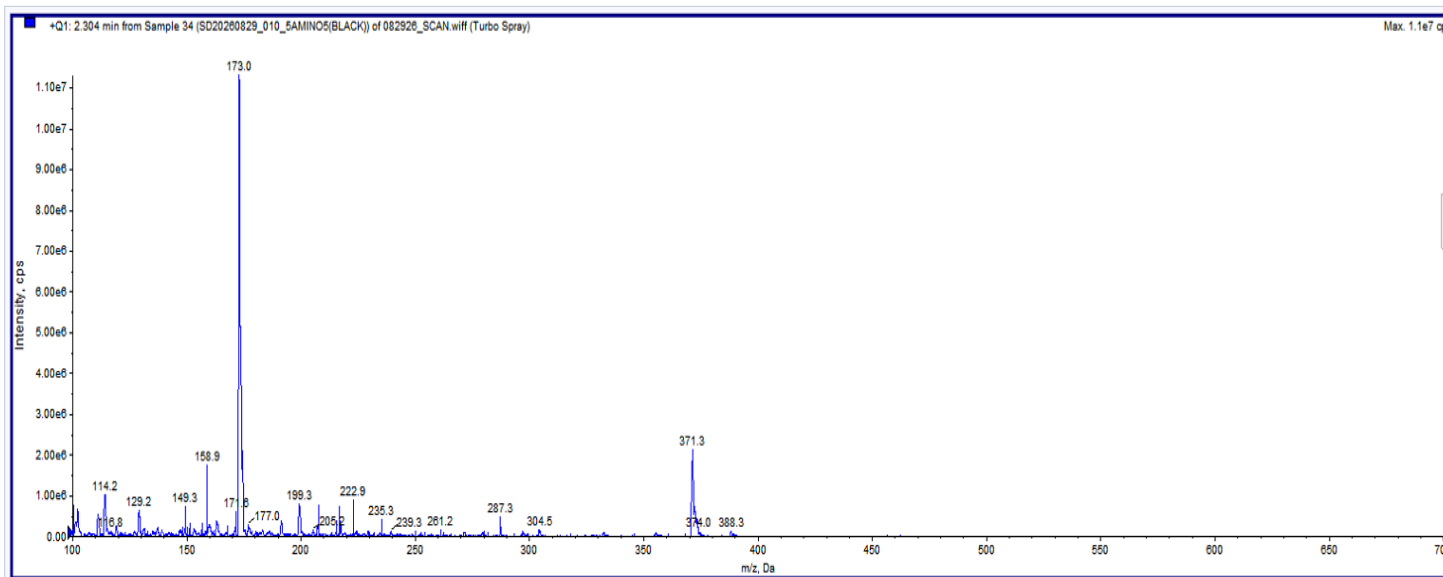
ANALYTICAL DATA

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CHROMATOGRAM



MASS SPECTRUM (LC-MS)



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ANALYTICAL INTERPRETATION

Chromatogram

Retention Time Match

Mass Spectrum (LC-MS)

Analyte: 5-Amino-1MQ

Sample ID: SD2020829_010_5AMINO5 (BLACK)

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

Retention time: 2.304min

The Q1 full-scan spectrum at 2.304min shows a dominant ion at $m/z \approx 173.0$, consistent with the expected $[M]^+ / [M+H]^+$ molecular ion of 5-Amino-1MQ (monoisotopic mass ≈ 173.09 Da). Additional lower-intensity ions at $m/z \approx 114.2, 129.2, 149.3, 158.9, 171.5, 177.0, 199.3, 205.1, 222.9, 239.3, 261.2, 287.3, 304.5, 371.3, 374.0,$ and 388.3 correspond to fragment and adduct species. The presence of a single, high-intensity parent ion at $m/z \approx 173.0$ with the expected fragmentation pattern is consistent with the LC-MS profile of 5-Amino-1MQ under positive-mode ESI conditions.

Interpretation: Identity by LC-MS Q1 full scan — Confirmed (5-Amino-1MQ detected; Q1 profile consistent with reference standard).

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