

CERTIFICATE OF ANALYSIS

COA #: **SD20260820_006_AHKCU50**

SAMPLE INFORMATION

Client	Zentra brands limited	Accession #	SD20260820_006
Compound	AHK-CU	Date Received	08/20/2026
Molecular Formula	C15H24CuN6O4	Date Reported	08/22/2026
Appearance	Blue lyophilized powder	Labeled Quantity	50mg
Sample Form	Lyophilized Vial	Lot / Batch #	ZC0038
Storage	Room Temp	CAS Number	682809-81-0
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	AHK-CU	Pass
Purity	LC-MS/MS	≥ 95.0%	99.34%	Pass
Net Peptide Content	LC-MS/MS	Report value	52.64 mg	Pass
Observed Molecular Mass	LC-MS	Within ± 1.0 Da	416.1 [M+H]	Pass
Theoretical Molecular Mass	Reference	—	415.94 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 · 08/22/2026

Chetan Soni, PhD. **Chetan Soni, PhD.**
Approved by · Laboratory Director · 08/22/2026

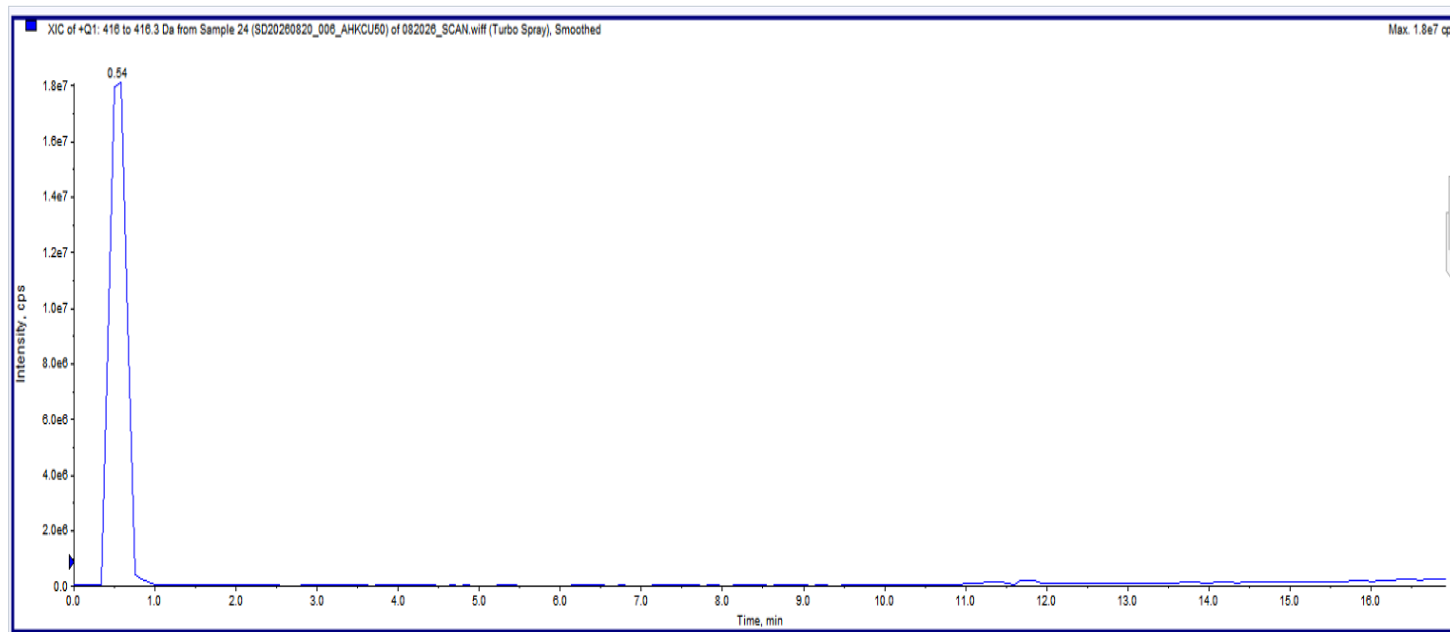
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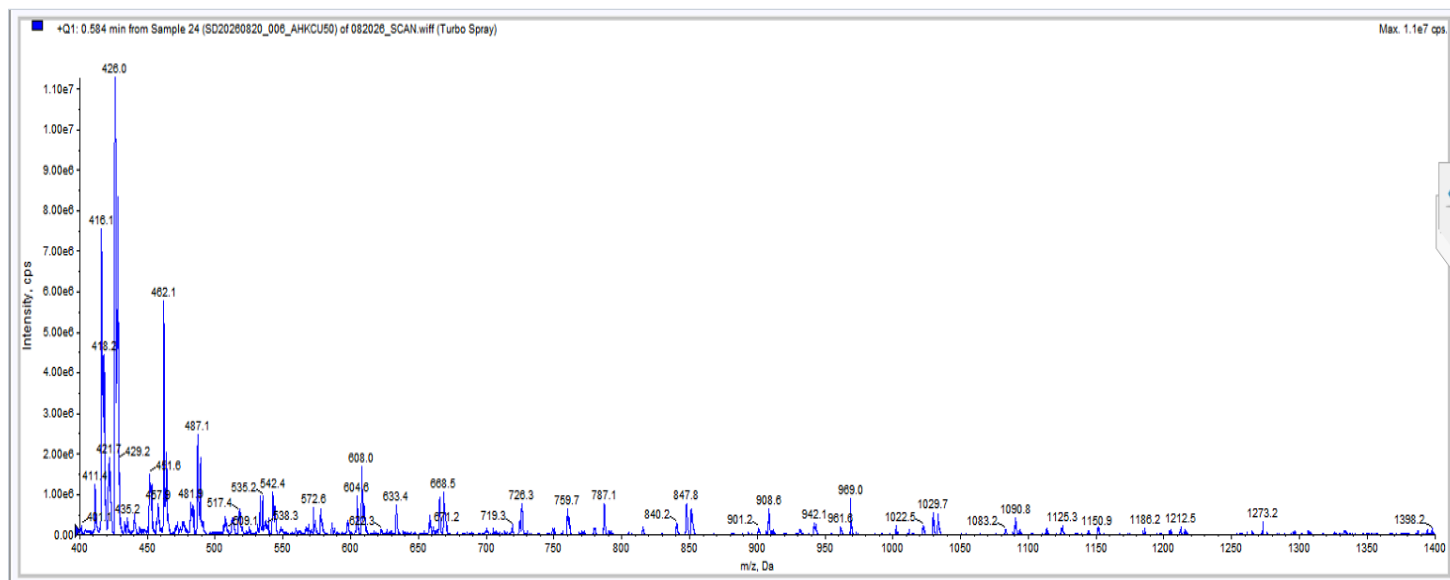
ANALYTICAL DATA

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CHROMATOGRAM



MASS SPECTRUM (LC-MS)



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ANALYTICAL INTERPRETATION

Chromatogram

Retention Time Match

Mass Spectrum (LC-MS)

AHK-Cu — Identity (Q1 MS)

The sample "AHKCU50" was analyzed by LC-MS in positive-mode Q1 full scan at RT=0.584min. The mass spectrum at this retention time shows a cluster of peptide-related ions centered around m/z 416–418, consistent with the $[M+H]^+$ molecular ion of the AHK-Cu complex, along with associated adduct and isotopic peaks (e.g., m/z 411.1, 416.1, 418.2, 426.0, 429.2). Additional higher-mass ions form a reproducible pattern of related species under the conditions used. No significant alternative peptide-like molecular ions are observed at the AHK-Cu retention time, supporting assignment of the chromatographic peak to AHK-Cu.

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

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