

Analysis Report

Official laboratory analysis summary for the submitted sample and associated quality-control review.

SAMPLE AHK-Cu Raw	RECEIVED DATE Oct 05, 2026	ANALYSIS DATE Oct 15, 2026	REPORT GENERATED Oct 19, 2026
STRENGTH	1g	MANUFACTURER	PepticoresAminos
BATCH NUMBER	PC-AKR-1123U	LAB CODE	983-1
CLIENT	www.pepticoresaminos.net		

SAMPLE INFORMATION

AHK-Cu Raw
1G

FORM	Blue raw powder in a plastic sample tube
SAMPLE SUBMISSION	Sample provided by customer
BATCH	PC-AKR-1123U
CAP / CRIMP COLOR	Light Blue
RECEIVED DATE	Oct 05, 2026



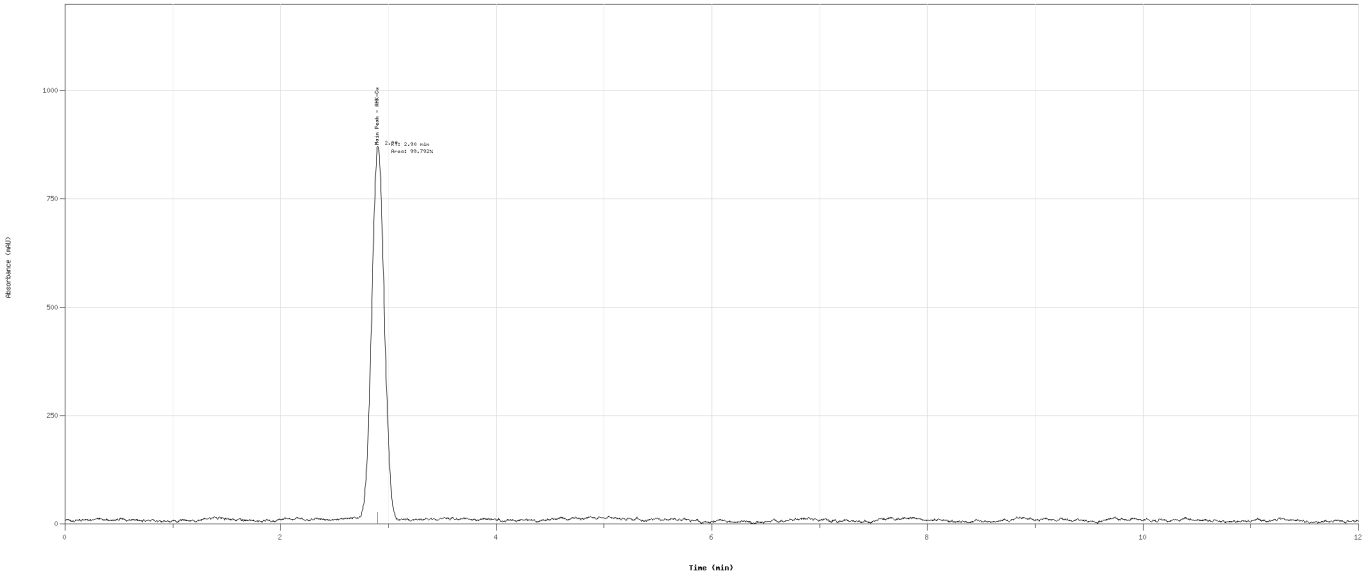
SAMPLE IMAGE

ANALYTICAL SUMMARY

IDENTITY	AHK-Cu
PURITY	99.792%
QUANTITY	1023mg
BATCH	PC-AKR-1123U
MANUFACTURER	PepticoresAminos

RP-HPLC-UV CHROMATOGRAM (220 NM)
Detection: UV 220 nm | Runtime: 12.0 min

Sample ID: BHC-Cu Raw
Report ID: 519-2020-00095
Method: RP-HPLC-UV Complex Profile
Detector: UV 220 nm | Runtime: 12.0 min



METHOD

TIME	H2O + 0.1% TFA	ACN + 0.1% TFA
0min	94%	6%
2min	94%	6%
10min	18%	82%
12min	18%	82%

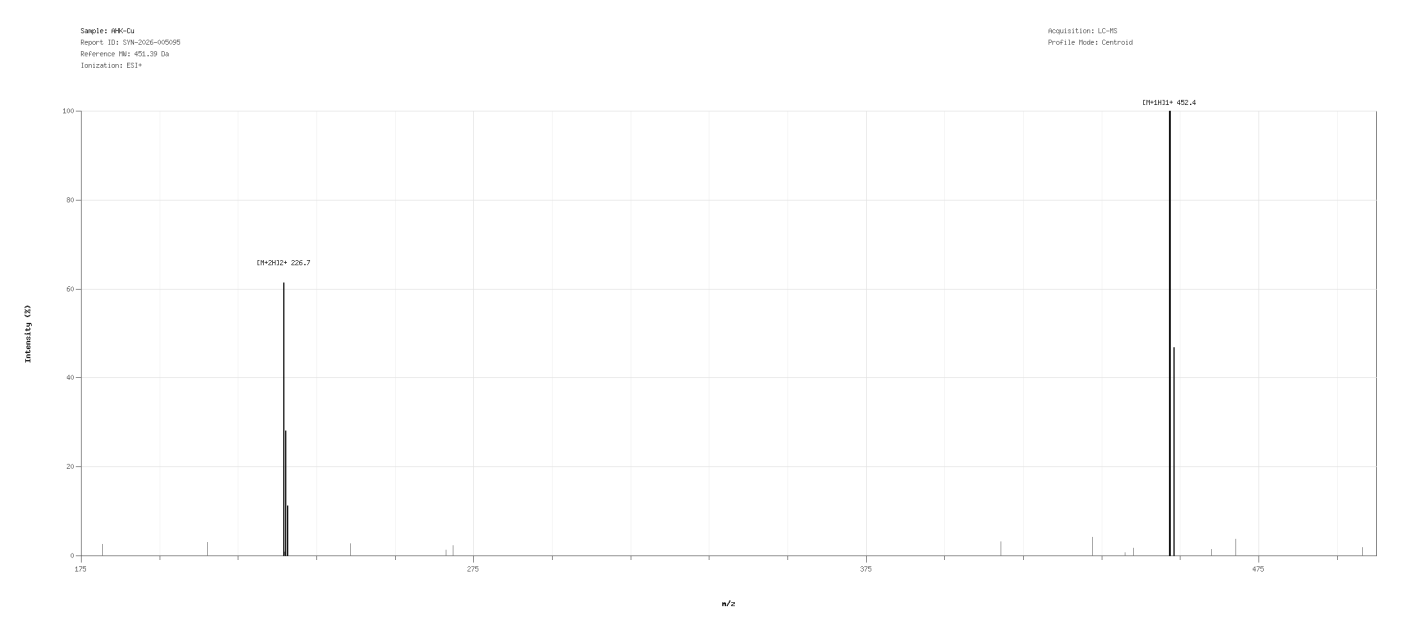
TECHNICAL NOTE

Results reported herein apply exclusively to the sample received and analyzed by the laboratory. Total runtime: 12.0 minutes.

COMMENTS

Chromatographic review confirms that the sample meets the defined analytical specifications for identity, purity and impurity profile under the applied RP-HPLC-UV method.

LC-MS MASS SPECTRUM



Charge-state distribution and isotope clustering are consistent with the expected analytical mass response.

ANALYSIS & METHODOLOGY

STANDARD PEPTIDE PURITY, MASS & ADDITIONAL TESTING

RP-HPLC-UV analysis was conducted under standardized conditions. Retention time, peak symmetry and analytical response were reviewed against established internal benchmarks.

BIOBURDEN

TEST	RESULT	UNIT	REPORTING LIMIT
Total Aerobic Microbial Count USP <61>/Eur. Ph. 2.6.12. Plate Count Method	Not detected	CFU/g	>= 1000
Total Yeast and Mold Count USP <61>/Eur. Ph. 2.6.12. Plate Count Method	Not detected	CFU/g	>= 100

ENDOTOXIN ANALYSIS

TEST	RESULT	UNIT	REPORTING LIMIT
Bacterial Endotoxin USP<85>/ Eur. Ph. 2.6.14. Bacterial Endotoxin Chromogenic Test	< 0.001	EU/mg	NMT 0.5

HEAVY METALS

TEST	RESULT	UNIT	REPORTING LIMIT
Arsenic Elemental Impurities Screening	Not detected	ppm	>= 1.5
Cadmium Elemental Impurities Screening	Not detected	ppm	>= 0.5
Cobalt Elemental Impurities Screening	Not detected	ppm	>= 25
Lead Elemental Impurities Screening	Not detected	ppm	>= 1.5

TEST	RESULT	UNIT	REPORTING LIMIT
Nickel Elemental Impurities Screening	Not detected	ppm	>= 25
Mercury Elemental Impurities Screening	Not detected	ppm	>= 1.5
Vanadium Elemental Impurities Screening	Not detected	ppm	>= 25

TECHNICAL APPENDIX

This appendix documents the analytical methodology, instrumentation and acceptance criteria applied for the evaluation of the sample.

COMPOUND REFERENCE

PARAMETER	AHK-CU
PUBCHEM CID	168431292
CAS	682809-81-0
MOLECULAR FORMULA	C15H24CICuN6O4-
MOLECULAR WEIGHT	451.39 g/mol

METHOD SPECIFICATION

PARAMETER	METAL COMPLEX RP-HPLC-UV SCREENING
ANALYTICAL MODE	RP-HPLC-UV screen for metal-complex peptide profile
COLUMN	C18 compatible analytical column
MOBILE PHASE A	Water + 0.1% TFA
MOBILE PHASE B	Acetonitrile + 0.1% TFA
FLOW RATE	0.8 mL/min
DETECTION	UV 220 nm
INJECTION VOLUME	10 uL
RUNTIME	12.0 min
SAMPLE DILUENT	Aqueous organic diluent compatible with complexed peptides
SAMPLE PREPARATION	Diluted and mixed using low-metal-contact handling

INSTRUMENT PLATFORM

PARAMETER	COMPLEX-SCREENING HPLC-UV PLATFORM
SYSTEM TYPE	Analytical HPLC system
DETECTOR	UV/VIS detector
ACQUISITION	Chromatographic acquisition and integration software
REVIEW MODE	Retention-time, UV response and mass-spectrum review

PARAMETER	COMPLEX-SCREENING HPLC-UV PLATFORM
WORKFLOW NOTE	Used for specialty peptide and complex-associated profiles
MS DETECTOR	Mass spectrometer, ESI+ acquisition
MS ACQUISITION	LC-MS spectral acquisition and processing

ANALYTICAL CRITERIA

PARAMETER	ACCEPTANCE FRAMEWORK	BASIS
IDENTITY	Retention-time and profile agreement with reference expectations	Chromatographic identity review
PURITY	NLT 98.0% unless a stricter report-specific specification is declared	Integrated RP-HPLC-UV purity profile
QUANTITY	Measured content reviewed against the declared sample strength	Report-level analytical summary
BIOBURDEN	Not detected or within stated reporting limits	Microbial screening table
ENDOTOXIN	Below stated reporting limit / internal screening threshold	Endotoxin analysis table
HEAVY METALS	Below individual reporting limits where screened	Elemental impurities screening table

This appendix documents the analytical methodology, instrumentation and acceptance criteria applied for the evaluation of the sample.

VERIFICATION

Verify this report through the official Synaptica Analytics verification page using the details below.

Verification URL synaptica-labs.com/verify-report

Report ID SYN-2026-005095

Verification Key VK-A4BA-FGY9

SCAN TO VERIFY



DIGITAL SIGNATURE

DIGITALLY SIGNED BY:
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Director