

Batch Testing Report

Certificate of Analysis (COA)

Product Information

Product Name: AHK-Cu 100mg
Cas No: 767286-83-9
Molecular Weight: 416.94 g/mol (with Cu) / 354.4 (AHK)
Molecular Formula: C15H25CuN6O4
Manufacturing Date: 12/06/2026
Amino Acid Sequence:
Ala-His-Lys (copper complex)

COA ID: CP-AHK-26-01
Batch No: P260612-LC734519
Catalogue No: 734519
Date Received: 21/09/2026
Date Analysed: 26/09/2026

Analytic Methods:

- ✓ High performance liquid chromatography (HPLC)
- ✓ Net content by UV quantitation
- ✓ Mass spectrometry (LC-MS)

Key Analytic Results

Test Item	Specification	Result	Status
 Appearance	Blue powder	Conforms	✓ Pass
 Solubility	Soluble in water	Conforms	✓ Pass
 pH	-	-	-
 Purity (HPLC)	≥ 99.0%	99.75%	✓ Pass
 Peptide content	90–115% of label	121.02 mg (121.02%)	✓ Pass
 Water content	≤ 6.0%	3.62%	✓ Pass
 Sodium content	-	-	-
 Bacterial endotoxins	< 5 EU/mg	Conforms	✓ Pass
 Molecular weight (MS)	354.4 Da (no copper)	Confirmed (LC-MS)	✓ Pass

Storage Conditions

Store at -20°C ± 5°C in a cool, dry environment. Protect from light and moisture.

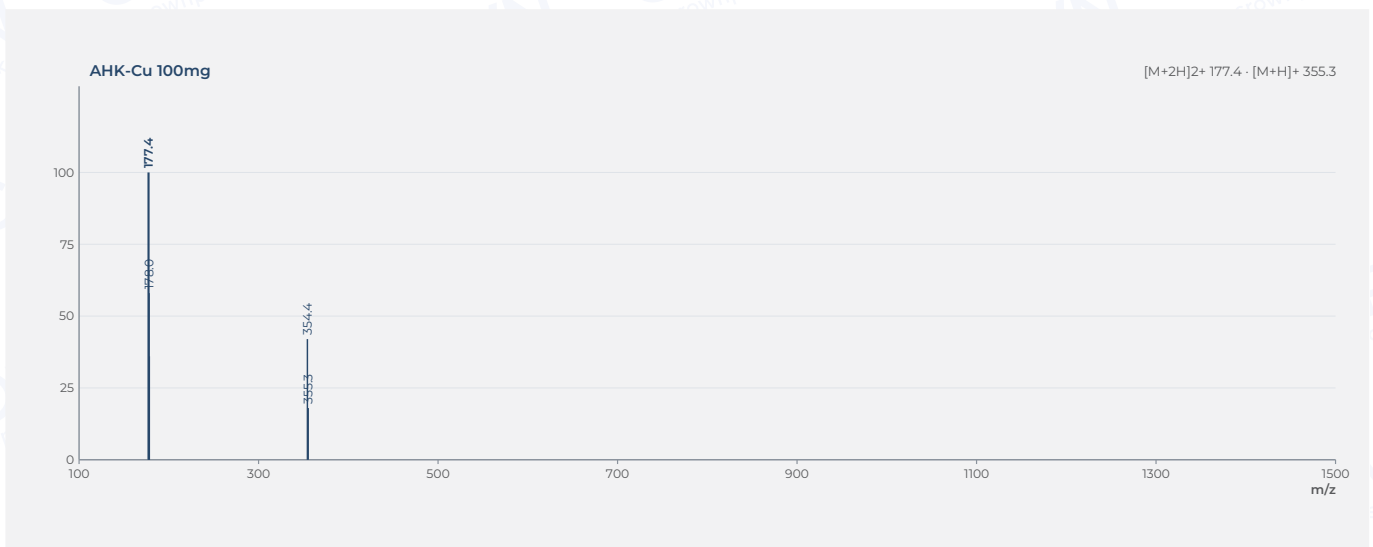
Disclaimer

This Certificate of Analysis represents the results of testing for the specific batch listed above. The information provided is accurate to the best of our knowledge at the time of analysis. Products are intended for research use only. It is the responsibility of the end user to determine suitability for their specific application.

Contaminant Analysis

Contaminant	Specification	Result
Acetonitrile	≤ 410 ppm	✓ Not Detected
Methanol	≤ 3000 ppm	✓ Not Detected
Piperidine	≤ 5000 ppm	✓ Not Detected
DMF	≤ 880 ppm	✓ Not Detected
Triethylamine	≤ 320 ppm	✓ Not Detected
Dichloromethane (DCM)	≤ 600 ppm	✓ Not Detected
Lead (Pb)	≤ 0.1 ppm	✓ Not Detected
Cadmium (Cd)	≤ 0.05 ppm	✓ Not Detected
Mercury (Hg)	≤ 0.05 ppm	✓ Not Detected
Arsenic (As)	≤ 0.1 ppm	✓ Not Detected

Mass Spectrometry Report

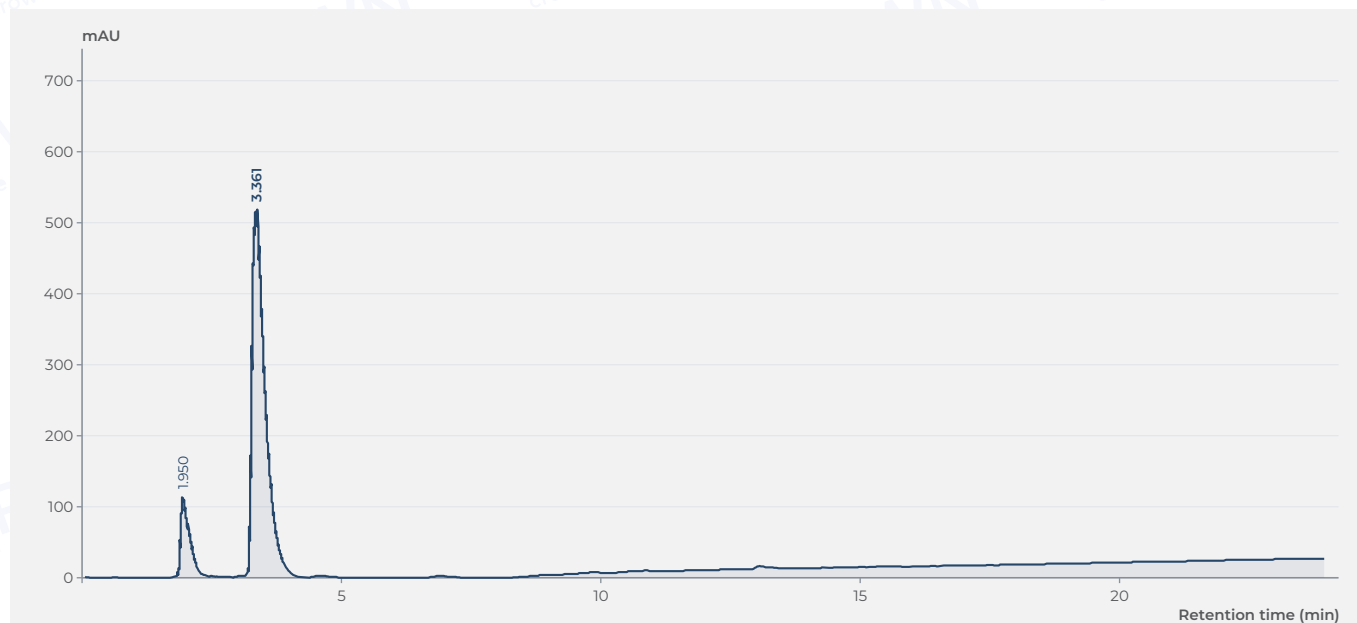


Observed molecular ions $[M+2H]^{2+}$ and $[M+H]^+$ consistent with theoretical molecular weight (LC-MS).

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HPLC Chromatogram



Peak	Retention Time (min)	Identification
Peak 1	1.950	Copper (matches reference standard)
Peak 2	3.361	AHK-Cu (principal peak)

HPLC purity: 99.75%. Detection method: UV @ 215 nm.

Laboratory statement

All analyses for this batch were conducted by an independent third-party analytical laboratory, using validated methods and calibrated instrumentation. Techniques include High-Performance Liquid Chromatography (HPLC) for purity assessment, with identity supported by retention-time match against a reference standard, and UV quantitation for net content. Molecular identity was confirmed by Liquid Chromatography–Mass Spectrometry (LC-MS).

This document is a simplified, customer-facing version of the full technical Certificate of Analysis, which is retained on file and available on request.

Reviewed and approved by: Adrian Cole

Crown Peptides UK Ltd (QC Manager)

Date: 21/10/2026

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