Axiom
ANALYTICS

CERTIFICATE OF ANALYSIS · 4X ESSENTIAL PANEL

Axiom Analytics Laboratories
2108 N St Ste N, Sacramento, CA 95816 US

AX-2026-1991-VABP

GHK-Cu · Lot CP01260806850L
Issued Oct 11, 2026 PT · v1
Verify: F046-A630-F63E

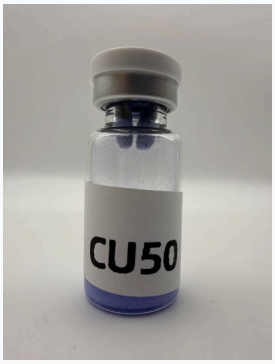
SCAN TO VERIFY

PASS — ALL SPECIFICATIONS MET

4 of 4 layers complete

L1	L2	L3	L4
Identity	Purity	Net Peptide Content	Sterility

Sample & Vial Validation



Vial A: as received & analyzed

Client	**Unidentified source**	Product	**GHK-Cu**
Lot / Batch	**CP01260806850L**	Label Claim	**50 mg**
Matrix	**lyophilized powder**	Sample Count	**1**
Vial Size	**3mL**	Cap Color	**White**
Crimp Color	**Silver / Aluminum**	Contents Color	**Blue**
Seal Intact	**Yes**	Condition	**sealed, intact**
Received	**Oct 6, 2026 PT**	Sampling	**client submitted**

Test Results

Test	Specification	Result	
GHK-Cu intact-complex identity (HILIC-ESI-MS) research screen	sample response within 402.11 m/z ±1.00 Da (inclusive 401.11–403.11 m/z) · natural copper isotope envelope and same-run matched-standard comparison confirmed · 402.11 m/z for [L+Cu−H]+ (published intact-complex identity context only — not a formula-derived mass and not the sample acceptance target), source https://doi.org/10.3390/molecules28186724	`sample intact-complex response 402 m/z; matched-standard difference −0.11 Da; natural copper isotope envelope confirmed; same-run matched-standard comparison confirmed`	PASS
Purity validated in house	≥ 99.25 area %	`99.39%`	PASS
Net Peptide Content research screen	every vial within ±10% of 50 mg	`Vial A: 52.03 mg`	PASS
Sterility · Rapid PCR research screen	Rapid PCR screen	`Target DNA not detected`	PASS

Results relate only to the item or portion tested. Unless sampling was performed or witnessed by Axiom Analytics, the laboratory does not attest that the submitted sample represents the wider lot or batch. A PASS designation means only that the reported result met the specification shown. It does not establish safety, efficacy, regulatory approval, legality, or suitability for human or animal use.

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SCAN TO VERIFY

Layer Results

1 Identity

HILIC-ESI-MS intact GHK-Cu full-scan/isotope identity

sample intact-complex response 402 m/z; matched-standard difference −0.11 Da; natural copper isotope envelope confirmed; same-run matched-standard comparison confirmed

sample response within 402.11 m/z ±1.00 Da (inclusive 401.11–403.11 m/z) · natural copper isotope envelope and same-run matched-standard comparison confirmed · 402.11 m/z for [L+Cu−H]+ (published intact-complex identity context only — not a formula-derived mass and not the sample acceptance target), source https://doi.org/10.3390/molecules28186724

PASS

GHK-Cu intact-complex identity (HILIC-ESI-MS)

Actual result	**sample intact-complex response 402 m/z; matched-standard difference −0.11 Da; natural copper isotope envelope confirmed; same-run matched-standard comparison confirmed**	Acceptance criterion	**sample response within 402.11 m/z ±1.00 Da (inclusive 401.11–403.11 m/z) · natural copper isotope envelope and same-run matched-standard comparison confirmed · 402.11 m/z for [L+Cu−H]+ (published intact-complex identity context only — not a formula-derived mass and not the sample acceptance target), source https://doi.org/10.3390/molecules28186724**
Result status	**PASS**		

2 Purity

HILIC-CAD homogeneity (universal detection)

1 physical-vial purity observation

≥ 99.25 area %

PASS

≥ 99.25 area %

Vial	Purity	Status
Vial A	99.39%	PASS

Criterion source: **Axiom Analytics SPEC-PURITY-001, Revision 1, effective 2026-08-31**



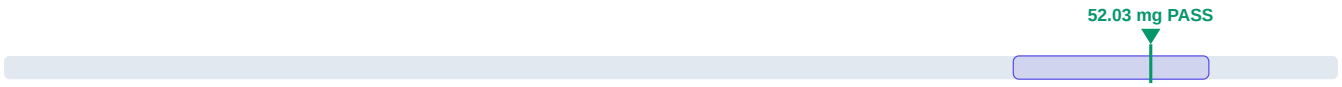
3 Net Peptide Content

Quantitative HPLC vs reference std

52.03 mg

each within +/- 10% of 50 mg

PASS



Vial	Measured	Status
Vial A	52.03 mg	PASS

4 Sterility

Rapid Microbial DNA Screen (qPCR target panel)

Sterility · Rapid PCR: Target DNA not detected

No microbial target DNA detected

PASS

Sterility · Rapid PCR PASS

Result	**Target DNA not detected**	Specification	**Rapid PCR screen**

Run controls valid.

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SCAN TO VERIFY

Reporting Scope & Limitations

`[Sterility · Rapid PCR]` DNA-target research screen only. It detects microbial DNA from viable and non-viable organisms alike, and is neither viable-CFU enumeration under USP <61> nor a batch sterility determination under USP <71>.

Digital Signatures

Analyst	**Alana Reeves**	Analyst Signature	**ed25519:209dd127092932ba62fe191f...**
Technical Reviewer	**Michael Niles**	Reviewer Signature	**ed25519:a624cf323238dabe161bb5d5...**
Laboratory Director	**Daniel Brennan**	Director Signature	**ed25519:5663a8152d63bcefa84a38d8...**

Where physical instrument analysis is performed, it takes place within Axiom Analytics' laboratory network, allocated at Axiom's discretion based on method, capacity, and order volume. Axiom Analytics performs sample accession, chain of custody, analytical oversight, and data review, and issues and is responsible for this certificate. Where analysis is subcontracted, the method is performed within the partner laboratory's published ISO/IEC 17025 scope of accreditation for that method, not merely at a laboratory holding ISO/IEC 17025 accreditation. Axiom Analytics does not itself currently hold ISO/IEC 17025 accreditation. The method-validation status of each reported result is identified beside that result. Partner laboratory identities are not disclosed: where samples are analyzed under double-blind conditions, they are identified only by an internal lot ID.

Each signature is an ed25519 signature over the SHA-384 hash of this report. Scan the QR on the letterhead or verify independently at https://axiomanalyticslab.com/verify/AX-2026-1991-VABP.

✓ **CRYPTOGRAPHICALLY SEALED (ed25519 + SHA-384)**

`SHA-384: db79a29dafd7188fffc4d83a63509413b07e74abbe5c56b6ed5db4d1b04bf97c...`

`Seal: ed25519:47c43f5de746f45ba58fe9b982dc714efb7fb1f3...`

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