Axiom ANALYTICS

CERTIFICATE OF ANALYSIS · 4X ESSENTIAL PANEL + 1 ADD-ON LAYER (L8)

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

AX-2026-4473-R6JX

GHK-Cu · Lot T-GHK-0041
Issued Oct 18, 2026 PT · v1
Verify: AD33-AD34-EC36

SCAN TO VERIFY

PASS — ALL SPECIFICATIONS MET

5 of 5 layers complete

L1	L2	L3	L4	L8
Identity	Purity	Net Peptide Content	Sterility	Fentanyl Screen

Signed Conformance Findings

AUTO_FILLED_SOURCE_UNVERIFIED

Source records pending; released under documented administrator review

Expected Source records · acceptance Documented administrator review · unit source provenance
Source: Documented source-record review
Source records pending; released under documented administrator review

AUTO_FILLED_SOURCE_UNVERIFIED

Source records pending; released under documented administrator review

Expected Source records · acceptance Documented administrator review · unit source provenance
Source: Documented source-record review
Source records pending; released under documented administrator review

Sample & Vial Validation



Vial A: as received & analyzed

MORE VIEWS OF VIAL A



Vial A · right

Brand	**Research Vault Group**	Product	**GHK-Cu**
Lot / Batch	**T-GHK-0041**	Label Claim	**50 mg**
Matrix	**Lyophilized powder**	Sample Count	**1**
Cap Color	**Black**	Crimp Color	**Silver / Aluminum**
Contents Color	**Blue**	Seal Intact	**Yes**
Condition	**sealed, intact**	Received	**Oct 14, 2026 PT**
Sampling	**client submitted**		

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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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) · 402.11 m/z for [L+Cu−H]+ (published literature value, used as the published-literature comparator; not USP or FDA text and not a formula-derived mass), source https://doi.org/10.3390/molecules28186724	`402.03 m/z; published-literature comparator difference −0.08 Da`	PASS
Purity validated in house	≥ 99.25 area %	`99.3%`	PASS
Net Peptide Content research screen	every vial within ±10% of 50 mg	`Vial A: 52.82 mg`	PASS
Sterility · Rapid PCR research screen	Rapid PCR screen	`Target DNA not detected`	PASS
Fentanyl Screen research screen	no fentanyl or analog at or above 1 ng/mg	`none detected`	PASS

Layer Results

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

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

402.03 m/z; published-literature comparator difference −0.08 Da
sample response within 402.11 m/z ±1.00 Da (inclusive 401.11–403.11 m/z) · 402.11 m/z for [L+Cu−H]+ (published literature value, used as the published-literature comparator; not USP or FDA text and not a formula-derived mass), source https://doi.org/10.3390/molecules28186724

PASS

Result **402.03 m/z; published-literature comparator difference −0.08 Da**

Acceptance **sample response within 402.11 m/z ±1.00 Da (inclusive 401.11–403.11 m/z) · 402.11 m/z for [L+Cu−H]+ (published literature value, used as the published-literature comparator; not USP or FDA text and not a formula-derived mass), source https://doi.org/10.3390/molecules28186724**

2 Purity

HILIC-CAD homogeneity (universal detection)

99.3%
≥ 99.25 area %

PASS

Acceptance **≥ 99.25%**

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

Vial A **99.3% · PASS**



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SCAN TO VERIFY

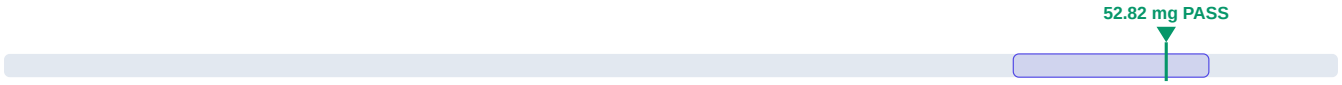
3 Net Peptide Content

Quantitative HPLC vs reference std

Vial A: 52.82 mg
every vial within ±10% of 50 mg

PASS

Target	**50 mg (±10%)**	Vial A	**52.82 mg · PASS**
Confirmed container volume	**Unknown**	Content concentration	**Unknown**



4 Sterility · Rapid PCR

Rapid Microbial DNA Screen (qPCR target panel)

Target DNA not detected
Rapid PCR screen

PASS

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

8 Fentanyl Screen

LC-MS/MS targeted adulterant screen

none detected
no fentanyl or analog at or above 1 ng/mg

PASS

Result	**Not detected**	Detection limit	**1 ng/mg**
Analytes screened	**Fentanyl, Acetylfentanyl, Acrylfentanyl, Butyrylfentanyl, Carfentanil, Cyclopropylfentanyl, Furanylfentanyl, Methoxyacetylfentanyl, ortho-Fluorofentanyl, Valerylfentanyl, 4-ANPP (despropionyl fentanyl)**	Source container	**A**

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>.

`[Fentanyl Screen]` Targeted LC-MS/MS adulterant screen, reported as detected or not detected against its stated detection limit. A harm-reduction research screen, not an exhaustive adulterant panel.

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Digital Signatures

Analyst	**Alana Reeves**	Analyst Signature	**ed25519:5fc0c4f4ff7fffa3e3791145...**
Technical Reviewer	**Michael Niles**	Reviewer Signature	**ed25519:85b6b3f2def3f11ea04c397b...**
Laboratory Director	**Daniel Brennan**	Director Signature	**ed25519:587668fe159ffe4e70055880...**

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-2026-4473-R6JX.

✓ CRYPTOGRAPHICALLY SEALED (ed25519 + SHA-384)

SHA-384: 16808bd44417e0628a8df12afa25fbd265180696bb836d8a1a30937bc38eb328...

Seal: ed25519:7a56f69c6aaef1ae3fd501c2f2637fe53cf3766a...

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RESEARCH VAULT

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