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

SCAN TO VERIFY

AX-2026-4522-R2AY

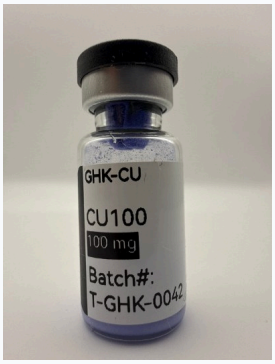
GHK-Cu · Lot T-GHK-0042
Issued Oct 1, 2026 · v1
Verify: 8F92-62C5-9FF4

PASS — ALL SPECIFICATIONS MET

5 of 5 layers complete

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

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-0042**	Label Claim	**100 mg**
Matrix	**lyophilized powder**	Sample Count	**1**
Cap Color	**Black**	Crimp Color	**Silver / Aluminum**
Contents Color	**Blue**	Seal Intact	**Yes**
Condition	**sealed, intact**	Received	**Sep 24, 2026**
Sampling	**client submitted**		

Test Results

Test	Specification	Result	
GHK-Cu intact-complex identity (HILIC-ESI-MS) research screen	402.11 m/z ±1.00 Da (inclusive 401.11–403.11 m/z) · [L+Cu−H]+ published 402.11 m/z (https://doi.org/10.3390/molecules28186724)	`402.158 m/z; matched-standard difference +0.048 Da`	PASS
Purity validated in house	≥ 99.25 area %	`99.98%`	PASS
Net Peptide Content research screen	every vial within ±10% of 100 mg	`Vial A: 107.03 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

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SCAN TO VERIFY

Layer Results

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

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

402.158 m/z; matched-standard difference +0.048 Da
402.11 m/z ±1.00 Da (inclusive 401.11–403.11 m/z) · [L+Cu−H]+ published 402.11 m/z (https://doi.org/10.3390/molecules28186724)

PASS

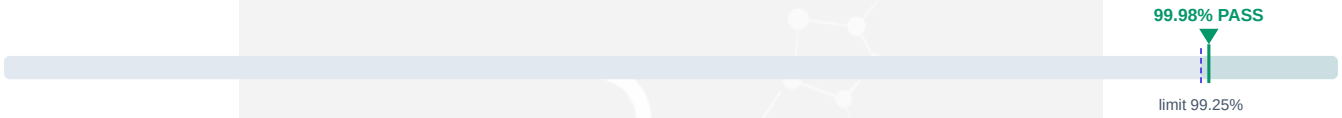
2 Purity

HILIC-CAD homogeneity (universal detection)

99.98%
≥ 99.25 area %

PASS

Acceptance	**≥ 99.25%**	Vial A	**99.98% · PASS**
Criterion source	**Axiom Analytics SPEC-PURITY-001, Revision 1, effective 2026-08-31**		



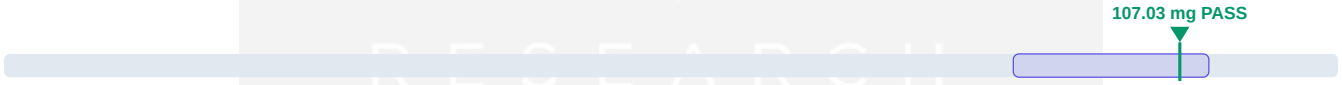
3 Net Peptide Content

Quantitative HPLC vs reference std

Vial A: 107.03 mg
every vial within ±10% of 100 mg

PASS

Target	**100 mg (±10%)**	Vial A	**107.03 mg · PASS**



4 Sterility · Rapid PCR

Rapid Microbial DNA Screen (qPCR target panel)

Target DNA not detected
Rapid PCR screen

PASS

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**

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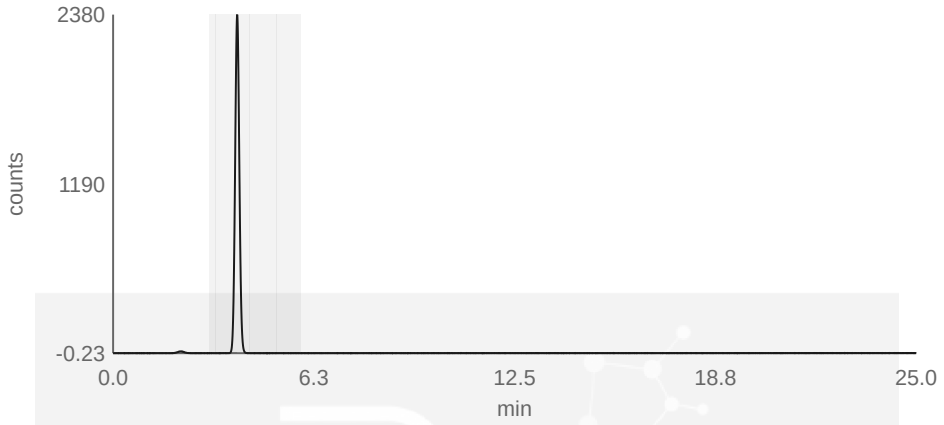
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HPLC Trace · Vial A · HILIC-CAD (7501 points)



Reporting Scope & Limitations

`[Sterility · Rapid PCR]` Rapid PCR screen for microbial DNA. It detects DNA from live and dead organisms and is not a USP <71> sterility test or a USP <61> count. Full USP <71> sterility testing is available as an add-on.

`[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.

Digital Signatures

Analyst	**Alana Reeves**	Analyst Signature	**ed25519:443e1c3923a229b808b5f581...**
Technical Reviewer	**Michael Niles**	Reviewer Signature	**ed25519:01d9be34fa2b331ef588486a...**
Laboratory Director	**Daniel Brennan**	Director Signature	**ed25519:b94a374a4ff3a23318c30e03...**

Testing is performed within Axiom's laboratory network under Axiom's methods. Every result is reviewed and released by Axiom, which issues and is responsible for this certificate. Axiom Analytics does not hold ISO/IEC 17025 accreditation. Samples are identified to the testing laboratory by an internal lot ID only. The method status of each result is shown beside it.

Each signature is an Ed25519 signature over the SHA-384 hash of this report. Scan the QR code or verify it yourself at https://axiomanalyticslab.com/verify/AX-2026-4522-R2AY.

Presentation corrected 2026-10-03; results and signatures unchanged.

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

SHA-384: ffe49f5236dd8d4c3a5441d6be318f9f8db210e8fbd3b4316d41e745e8db0b0e...

Seal: ed25519:0e094498d4009b0223cc98613e95bb51898cb6d9...

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