



PASS — ALL SPECIFICATIONS MET

5 of 5 layers complete

L1

Identity

L2

Purity

L3

Net Peptide Content

L4

Sterility

L8

Fentanyl Screen

Sample & Vial Validation



Vial A: as received & analyzed

Client		Product	GHK-Cu/KPV
Lot / Batch	T-GHK-0100	Label Claim	GHK-Cu 50 mg + KPV 10 mg
Matrix	lyophilized powder	Sample Count	1
Cap Color	Black	Crimp Color	Silver / Aluminum
Contents Color	White	Seal Intact	Yes
Condition	sealed, intact	Received	Sep 24, 2026
Sampling	client submitted		

MORE VIEWS OF VIAL A



Vial A - right

Test Results

Test	Specification	Result	
Identity research screen	every declared component within ± 1 Da of its own theoretical mass	2 of 2 components confirmed	PASS
Purity validated in house	each declared component at or above its own locked purity criterion	99.7%	PASS
Net Peptide Content research screen	each declared component within its own locked content criterion, at the declared ratio	62.43 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

Identity
HILIC-ESI-MS intact GHK-Cu full-scan/isotope identity + LC-MS (ESI+) accurate mass

2 of 2 components confirmed

each +/- 1 Da of its component mass

PASS

Component	Its criterion	Observed	Status
GHK-Cu	402.92 Da · acceptance ±1 Da · average	403.012 Da	PASS Recorded component call: PASS Calculated comparison: within criterion Signed layer call: PASS
KPV	342.44 Da · acceptance ±1 Da · average	342.533 Da	PASS Recorded component call: PASS Calculated comparison: within criterion Signed layer call: PASS

GHK-Cu intact-complex determination

Recorded matched-standard response

Qualified matched-standard criterion

Actual sample intact-complex response

Difference from qualified matched standard

Same-run matched-standard comparison

Natural copper isotope envelope

Sample-level HILIC-ESI-MS; separate from the per-vial accurate-mass component screen

402.11 m/z

402.11 m/z ±1.00 Da (inclusive 401.11–403.11 m/z)

402.167 m/z

+0.057 Da

confirmed

confirmed

403.012 Da



GHK-Cu accurate mass against its identity tolerance: 402.92 Da ± 1 Da (average)

342.533 Da



KPV accurate mass against its identity tolerance: 342.44 Da ± 1 Da (average)



SCAN TO VERIFY

2 Purity

HILIC-CAD homogeneity (universal detection) + RP-HPLC 214 nm area% (USP <621>)

99.7%
each component at or above its own locked purity criterion

PASS

Component	Its criterion	Observed	Status
GHK-Cu	Expected Purity ≥ 99.25 area % · Acceptance NLT 99.25 area % · Units area % · Source Axiom Analytics SPEC-PURITY-001, Revision 1, effective 2026-08-31	99.63%	PASS Recorded component call: not recorded Calculated comparison: within criterion Signed layer call: PASS
KPV	Expected Purity ≥ 99.25 area % · Acceptance NLT 99.25 area % · Units area % · Source Axiom Analytics SPEC-PURITY-001, Revision 1, effective 2026-08-31	99.76%	PASS Recorded component call: not recorded Calculated comparison: within criterion Signed layer call: PASS



3 Net Peptide Content

Quantitative HPLC vs reference std

62.43 mg
each component within its own locked content criterion, at the declared ratio

PASS

Component	Its criterion	Observed	Status
GHK-Cu	45–55 mg · Declared label claim on this accession: "GHK-Cu 50 mg + KPV 10 mg" (GHK-Cu 50 mg); acceptance ±10% of the declared component amount per Axiom SPEC-CONTENT-001	51.82 mg	PASS Recorded component call: not recorded Calculated comparison: within criterion Signed layer call: PASS
KPV	9–11 mg · Declared label claim on this accession: "GHK-Cu 50 mg + KPV 10 mg" (KPV 10 mg); acceptance ±10% of the declared component amount per Axiom SPEC-CONTENT-001	10.61 mg	PASS Recorded component call: not recorded Calculated comparison: within criterion Signed layer call: PASS





SCAN TO VERIFY

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
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8

Fentanyl Screen

LC-MS/MS targeted adulterant screen

Not detected

detection limit 1 ng/mg

PASS

Analytes screened	Fentanyl, Acetylfentanyl, Acrylfentanyl, Butyrylfentanyl, Carfentanil, Cyclopropylfentanyl, Furanylfentanyl, Methoxyacetylfentanyl, ortho-Fluorofentanyl, Valerylfentanyl, 4-ANPP (despropionyl fentanyl)	Detection limit	1 ng/mg
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.

Digital Signatures

Analyst	Alana Reeves	Analyst Signature	ed25519:c9ee0063004a5dfe111cf995...
Technical Reviewer	Michael Niles	Reviewer Signature	ed25519:a2a533735c960d020a06daa0...
Laboratory Director	Daniel Brennan	Director Signature	ed25519:c9501e2c8fc55f5c5f15a0e1...

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-2026-2978-GTHB>.

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

✓ CRYPTOGRAPHICALLY SEALED (ed25519 + SHA-384)

SHA-384: 2cd63bdb391272ba364cbca4edf9142b6097c7887e03aa221e647195551a0bf7...

Seal: ed25519:184fe7f23a64ef8423dcf681ff5a6b0236c0bffe...

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