Axiom
ANALYTICS

CERTIFICATE OF ANALYSIS · 4X ESSENTIAL PANEL

Axiom Analytics Labs LLC
Sacramento, California, USA

AX-2026-4559-NTXF

GHK-Cu · Lot GL-GHK100MG-04-202610-001
Issued Oct 28, 2026 PT · v1
Verify: 703B-CF25-AB31

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

MORE VIEWS OF VIAL A



Vial A · right

Brand	**Guardian Labs**	Product	**GHK-Cu**
Lot / Batch	**GL-GHK100MG-04-202610-001**	Label Claim	**100 mg**
Matrix	**lyophilized powder**	Sample Count	**1**
Vial Size	**3mL**	Cap Color	**Red**
Crimp Color	**Silver / Aluminum**	Contents Color	**Blue**
Seal Intact	**Yes**	Condition	**sealed, intact**
Received	**Oct 21, 2026 PT**	Sampling	**client submitted**

Test Results

Test	Specification	Result	
GHK-Cu intact-complex identity (HILIC-ESI-MS) research screen	402.11 m/z ±0.10 Da (inclusive 402.01–402.21 m/z), [L+Cu−H]+ published literature value (https://doi.org/10.3390/molecules28186724)	`402.135 m/z; published-literature comparator difference +0.025 Da`	PASS
Purity validated in house	≥ 99.25 area %	`99.44%`	PASS
Net Peptide Content research screen	every vial within ±10% of 100 mg	`Vial A: 105.27 mg`	PASS
Sterility · Rapid PCR research screen	Rapid PCR screen	`Target DNA not detected`	PASS

Layer Results

1 GHK-Cu intact-complex identity (HILIC-ESI-MS)
HILIC-ESI-MS intact GHK-Cu full-scan/isotope identity

402.135 m/z; published-literature comparator difference +0.025 Da
402.11 m/z ±0.10 Da (inclusive 402.01–402.21 m/z), [L+Cu−H]+ published literature value (https://doi.org/10.3390/molecules28186724)
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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2 Purity

HILIC-CAD homogeneity (universal detection)

99.44%
≥ 99.25 area %
PASS

Acceptance	**≥ 99.25%**	Vial A	**99.44% · PASS**
Criterion source	**Axiom Analytics SPEC-PURITY-001, Revision 1, effective 2026-08-31**		

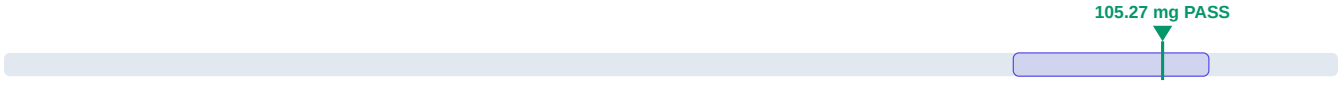


3 Net Peptide Content

Quantitative HPLC vs reference std

Vial A: 105.27 mg
every vial within ±10% of 100 mg
PASS

Target	**100 mg (±10%)**	Vial A	**105.27 mg · PASS**



4 Sterility · Rapid PCR

Rapid Microbial DNA Screen (qPCR target panel)

Target DNA not detected
Rapid PCR screen
PASS

Target panel	**Pan-bacterial 16S rRNA gene (VIC), Pan-fungal 18S rRNA gene (FAM)**

`Run controls valid.`

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.

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Digital Signatures

Analyst	**Alana Reeves**	Analyst Signature	**ed25519:7864d543549f59c94bcdb6cb...**
Technical Reviewer	**Michael Niles**	Reviewer Signature	**ed25519:ebefa5ab9822b11d7f2718c9...**
Laboratory Director	**Daniel Brennan**	Director Signature	**ed25519:e575dd3bbf3e5911fdd4010b...**

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-2026-4559-NTXF.

✓ CRYPTOGRAPHICALLY SEALED (ed25519 + SHA-384)

SHA-384: 145190ec9e4bc202524d934ff8b5ec77df11077c5ae973334921d226f5a3560c...
Seal: ed25519:4cc7f5d4d27ead5de16a2b0e1dad60d2959cd6c4...

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