Axiom
ANALYTICS

CERTIFICATE OF ANALYSIS · 4X ESSENTIAL PANEL

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

AX-2026-1310-VGEX

Klow · Lot CP012607222280L
Issued Oct 10, 2026 PT · v1
Verify: A784-1028-6447

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	**Klow**
Lot / Batch	**CP012607222280L**	Label Claim	**80 mg**
Matrix	**lyophilized powder**	Sample Count	**1**
Vial Size	**3mL**	Cap Color	**Clear**
Crimp Color	**Silver / Aluminum**	Contents Color	**Blue**
Seal Intact	**Yes**	Condition	**sealed, intact**
Received	**Sep 29, 2026 PT**	Sampling	**client submitted**

Test Results

Test	Specification	Result	
Identity research screen	every declared component within ±1 Da of its own theoretical mass	4 of 4 components confirmed	PASS
Purity validated in house	each declared component at or above its own locked purity criterion	99.68%	PASS
Net Peptide Content research screen	each declared component within its own locked content criterion, at the declared ratio	83.47 mg	PASS
Sterility · Rapid PCR research screen	Rapid PCR screen	Target DNA not detected	PASS

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Layer Results

1 Identity

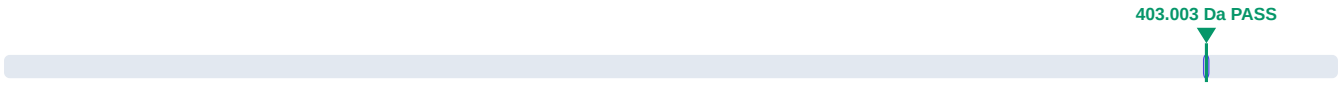
HILIC-ESI-MS intact GHK-Cu full-scan/isotope identity + LC-MS (ESI+) accurate mass

4 of 4 components confirmed
each +/- 1 Da of its component mass

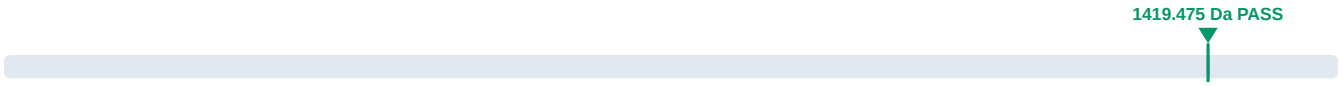
PASS

Component	Its criterion	Observed	Status
GHK-Cu	402.92 Da · acceptance ±1 Da · average	403.003 Da	PASS
BPC-157	1419.556 Da · acceptance ±1 Da · average	1419.475 Da	PASS
TB-500 (Thymosin B4)	4963.506 Da · acceptance ±1 Da · average	4963.415 Da	PASS
KPV	342.44 Da · acceptance ±1 Da · average	342.377 Da	PASS

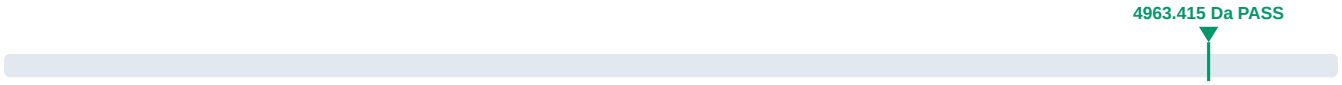
GHK-Cu intact-complex determination	**Sample-level HILIC-ESI-MS; separate from the per-vial accurate-mass component screen**
Recorded matched-standard response	**402.11 m/z**
Qualified matched-standard criterion	**402.11 m/z ±1.00 Da (inclusive 401.11–403.11 m/z)**
Actual sample intact-complex response	**402.11 m/z**
Difference from qualified matched standard	**+0 Da**
Same-run matched-standard comparison	**confirmed**
Natural copper isotope envelope	**confirmed**



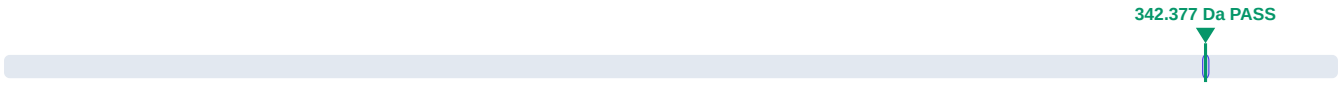
GHK-Cu accurate mass against its identity tolerance: 402.92 Da ± 1 Da (average)



BPC-157 accurate mass against its identity tolerance: 1419.556 Da ± 1 Da (average)



TB-500 (Thymosin B4) accurate mass against its identity tolerance: 4963.506 Da ± 1 Da (average)



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

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2 Purity

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

99.68% PASS

each component at or above its own locked purity criterion

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	99.9%	PASS
BPC-157	Expected Purity ≥ 99.25 area % · Acceptance NLT 99.25 area % · Units area % · Source Axiom Analytics SPEC-PURITY-001, Revision 1, effective 2026-08-31	99.35%	PASS
TB-500 (Thymosin B4)	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
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	99.85%	PASS



GHK-Cu purity against its criterion: NLT 99.25 area % · no recorded call for this component



BPC-157 purity against its criterion: NLT 99.25 area % · no recorded call for this component



TB-500 (Thymosin B4) purity against its criterion: NLT 99.25 area % · no recorded call for this component



KPV purity against its criterion: NLT 99.25 area % · no recorded call for this component

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3 Net Peptide Content

Quantitative HPLC vs reference std

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

PASS

Component	Its criterion	Observed	Status
GHK-Cu	5 parts · 45–55 mg · Declared blend recipe on the controlled Axiom catalog record for Klow (component ratio 5); acceptance ±10% per Axiom SPEC-CONTENT-001	51.64 mg	PASS
BPC-157	1 part · 9–11 mg · Declared blend recipe on the controlled Axiom catalog record for Klow (component ratio 1); acceptance ±10% per Axiom SPEC-CONTENT-001	10.79 mg	PASS
TB-500 (Thymosin B4)	1 part · 9–11 mg · Declared blend recipe on the controlled Axiom catalog record for Klow (component ratio 1); acceptance ±10% per Axiom SPEC-CONTENT-001	10.55 mg	PASS
KPV	1 part · 9–11 mg · Declared blend recipe on the controlled Axiom catalog record for Klow (component ratio 1); acceptance ±10% per Axiom SPEC-CONTENT-001	10.49 mg	PASS

Observed ratio **GHK-Cu 4.79 : BPC-157 1.00 : TB-500 (Thymosin B4) 0.98 : KPV 0.97** against declared **GHK-Cu 5.00 : BPC-157 1.00 : TB-500 (Thymosin B4) 1.00 : KPV 1.00** · source Declared blend recipe on the controlled Axiom catalog record for Klow (component ratio 5); acceptance ±10% per Axiom SPEC-CONTENT-001

GHK-Cu: component criterion unavailable.

BPC-157: component criterion unavailable.

TB-500 (Thymosin B4): component criterion unavailable.

KPV: component criterion unavailable.

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.

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>.

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Digital Signatures

Analyst	**Alana Reeves**	Analyst Signature	**ed25519:c873d9647c6052902cb1d620...**
Technical Reviewer	**Michael Niles**	Reviewer Signature	**ed25519:5479e8fa7b4df915f7069d54...**
Laboratory Director	**Daniel Brennan**	Director Signature	**ed25519:e7852fc6b6991ec6dd8ea042...**

Physical instrument analysis is performed 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: samples are analyzed under double-blind conditions, 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-2026-1310-VGEX.

✓ CRYPTOGRAPHICALLY SEALED (ed25519 + SHA-384)

SHA-384: 22564b6066de30d3ec8e8aef0ff9ea2ce34c1937243d1079c3e44957f195f041...

Seal: ed25519:e8707dea2e52383c4f48f9dceaa2469069c2da37...

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