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-2026-750-SXSE

PRO-KLW · Lot T-KLO-0030
Issued Oct 3, 2026 · v1
Verify: 6C30-0677-3A27

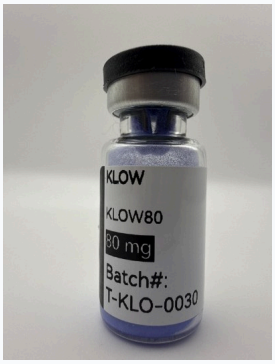
SCAN TO VERIFY

PASS — ALL SPECIFICATIONS MET

5 of 5 layers complete

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

Sample & Vial Validation



Vial A: as received & analyzed

MORE VIEWS OF VIAL A



Vial A · right

Brand	**Precise Research Only**	Product	**PRO-KLW**
Lot / Batch	**T-KLO-0030**	Label Claim	**GHK-Cu 50 mg + BPC-157 10 mg + TB-500 10 mg + KPV 10 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	
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	99.69%	PASS
Net Peptide Content research screen	each declared component within its own locked content criterion, at the declared ratio	84.27 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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Layer Results

1 Identity

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

4 of 4 components confirmed
every declared component within ±1 Da of its own theoretical mass

PASS

Component	Its criterion	Observed	Status
GHK-Cu	402.92 Da · acceptance ±1 Da · average	403.145 Da · mass error +0.225 Da (558.4 ppm)	PASS
BPC-157	1419.556 Da · acceptance ±1 Da · average	1419.566 Da · mass error +0.01 Da (7 ppm)	PASS
TB-500 (Thymosin B4)	4963.506 Da · acceptance ±1 Da · average	4963.477 Da · mass error -0.029 Da (-5.8 ppm)	PASS
KPV	342.44 Da · acceptance ±1 Da · average	342.473 Da · mass error +0.033 Da (96.4 ppm)	PASS

Acceptance	**within ±1 Da**	Vial A	**4 of 4 components confirmed**
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	**402.166 m/z**
Difference from qualified matched standard	**+0.056 Da**	Same-run matched-standard comparison	**confirmed**
Natural copper isotope envelope	**confirmed**		

2 Purity

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

99.69%
each declared 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	99.4%	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	99.92%	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	99.97%	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	99.48%	PASS

Acceptance	**Each component NLT 99.25 area %**	Vial A	**99.69% · PASS**

3 Net Peptide Content

Quantitative HPLC vs reference std

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

PASS

Component	Its criterion	Observed	Status
GHK-Cu	45–55 mg (50 mg ±10%)	53.23 mg	PASS
BPC-157	9–11 mg (10 mg ±10%)	10.45 mg	PASS
TB-500 (Thymosin B4)	9–11 mg (10 mg ±10%)	10.35 mg	PASS
KPV	9–11 mg (10 mg ±10%)	10.24 mg	PASS

Target	**80 mg (±10%)**	Criterion source	**Axiom SPEC-CONTENT-001**

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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**

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:eb42b7ac3210b9ee82c9a8b4...**
Technical Reviewer	**Michael Niles**	Reviewer Signature	**ed25519:94ef339400bead4072357dc9...**
Laboratory Director	**Daniel Brennan**	Director Signature	**ed25519:4d460b15d5b1a9839421fee6...**

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-2026-750-SXSE.

Presentation corrected 2026-10-04; results and signatures unchanged.

CRYPTOGRAPHICALLY SEALED (ed25519 + SHA-384)

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SHA-384: b27da33f7588a3e3b4b10ea84e29c4be0cb51e63ee4dbb43d43774236f03256f...
Seal: ed25519:116ce5dc9b77d2a89ca152ad7af3ab1ed2a1a091...
```

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