Axiom
ANALYTICS

CERTIFICATE OF ANALYSIS · 4X ESSENTIAL PANEL + 2 ADD-ON LAYERS (L5, L6)

Axiom Analytics Labs LLC
Sacramento, California, USA

AX-2026-2164-U5HP

Wolverine Blend (BPC-157/TB-500) · Lot GL-WOV20MG-04-202611-002
Issued Nov 5, 2026 PT · v1
Verify: D788-FF7C-08F4

SCAN TO VERIFY

PASS — ALL SPECIFICATIONS MET

6 of 6 layers complete

L1	L2	L3	L4	L5	L6
Identity	Purity	Net Peptide Content	Sterility	Bacterial endotoxin, USP <85> (kinetic chromogenic LAL)	Heavy Metals

Sample & Vial Validation



Vial A: as received & analyzed

MORE VIEWS OF VIAL A



Vial A · left

Brand	**Guardian Labs**	Product	**Wolverine Blend (BPC-157/TB-500)**
Lot / Batch	**GL-WOV20MG-04-202611-002**	Label Claim	**20 mg**
Matrix	**lyophilized powder**	Sample Count	**1**
Vial Size	**3mL**	Cap Color	**Purple**
Crimp Color	**Silver / Aluminum**	Contents Color	**White**
Seal Intact	**Yes**	Condition	**sealed, intact**
Received	**Nov 4, 2026 PT**	Sampling	**client submitted**

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 research screen	each declared component at or above its own locked purity criterion	`Component mean 99.76%`	PASS
Net Peptide Content research screen	each declared component within its own locked content criterion, at the declared ratio	`20.74 mg`	PASS
Sterility · Rapid PCR research screen	Rapid PCR screen	`Target DNA not detected`	PASS
Endotoxin verified compendial	≤ 0.5 EU/mg (house limit; USP <85> method)	`0.227 EU/mg`	PASS
Heavy Metals research screen	ICH Q3D(R2) Table A.2.2, parenteral route	`All below limits`	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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Layer Results

1 Identity

LC-MS (ESI+)

2 of 2 components confirmed
every declared component within ±1 Da of its own theoretical mass

PASS

Component	Its criterion	Observed	Status
BPC-157	1419.556 Da · acceptance ±1 Da · average	1419.553 Da · mass error -0.003 Da (-2.1 ppm)	PASS
TB-500 (Thymosin B4)	4963.506 Da · acceptance ±1 Da · average	4963.506 Da · mass error +0 Da (0 ppm)	PASS

Acceptance **within ±1 Da** Vial A **2 of 2 components confirmed**

2 Purity

RP-HPLC 214nm (USP 621)

Component mean 99.76%
each declared component at or above its own locked purity criterion

PASS

Component	Its criterion	Observed	Status
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	99.67%	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	99.84%	PASS

Acceptance **Each component NLT 99.25 area %** Vial A **Component mean 99.76% · PASS**

3 Net Peptide Content

Quantitative HPLC vs reference std

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

PASS

Component	Its criterion	Observed	Status
BPC-157	9–11 mg (10 mg ±10%)	10.38 mg	PASS
TB-500 (Thymosin B4)	9–11 mg (10 mg ±10%)	10.36 mg	PASS

Ratio, in the table's component order: observed **1.00 : 1.00** against declared **1.00 : 1.00** · source Axiom SPEC-CONTENT-001

Target **20 mg (±10%)**

4 Sterility · Rapid PCR

Rapid Microbial DNA Screen (qPCR target panel)

Target DNA not detected
Rapid PCR screen

PASS

Run controls valid.

5 Endotoxin

Bacterial endotoxin, USP <85> (kinetic chromogenic LAL)

0.227 EU/mg
≤ 0.5 EU/mg (house limit; USP <85> method)

PASS

Source container **A**

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SCAN TO VERIFY

6 Heavy Metals

ICP-MS (USP 232/233)

All below limits PASS

ICH Q3D(R2) Table A.2.2, parenteral route

Source container **A**

Element	Specification	Result	Status
Lead (Pb)	≤ 0.5 ppm (µg/g)	Not Detected	PASS
Arsenic (As)	≤ 1.5 ppm (µg/g)	Not Detected	PASS
Cadmium (Cd)	≤ 0.2 ppm (µg/g)	Not Detected	PASS
Mercury (Hg)	≤ 0.3 ppm (µg/g)	Not Detected	PASS
Cobalt (Co)	≤ 0.5 ppm (µg/g)	Not Detected	PASS
Vanadium (V)	≤ 1 ppm (µg/g)	Not Detected	PASS
Nickel (Ni)	≤ 2 ppm (µg/g)	Not Detected	PASS

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.

Digital Signatures

Analyst	**Alana Reeves**	Analyst Signature	**ed25519:fd197f4dcd921a688eed2681...**
Technical Reviewer	**Michael Niles**	Reviewer Signature	**ed25519:a28f7c6319e1da3ec37cf3e3...**
Laboratory Director	**Daniel Brennan**	Director Signature	**ed25519:234a2387540332f8544230f0...**

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-2026-2164-U5HP.

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

SHA-384: 0d6a7c51cb256545707b59da60d552a5efe2c3e3cc7f7f3a60eb1c81b134127f...

Seal: ed25519:93b309229646c96afefcce31cdecfd7c99d2cab4...

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