Gold Standard Analytics

Gold Standard Analytics LLC, Houston, TX

CERTIFICATE OF ANALYSIS

Report GSA-COA-000075-07503-20261112 · issued Nov 16, 2026

Western Regenerative Supply, LLC

PRODUCT
Wolverine Blend (BPC-157 + TB-500)

ORDER
GSA-2026-000075

SAMPLE
075-03

ISSUED
Nov 16, 2026



THE SAMPLE AS RECEIVED

IDENTITY

BPC-157, TB-500

both declared found

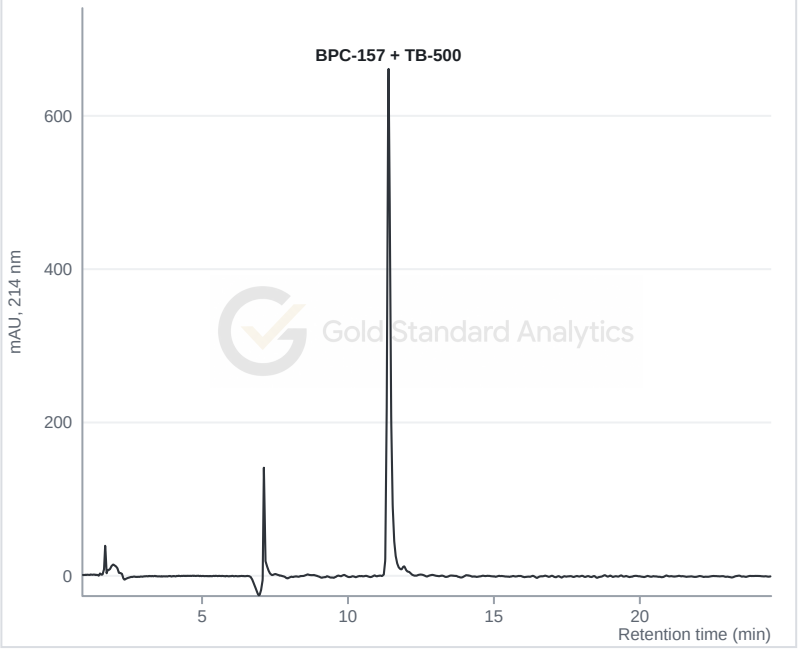
PURITY

100 %

declared peptides, HPLC-UV 214 nm

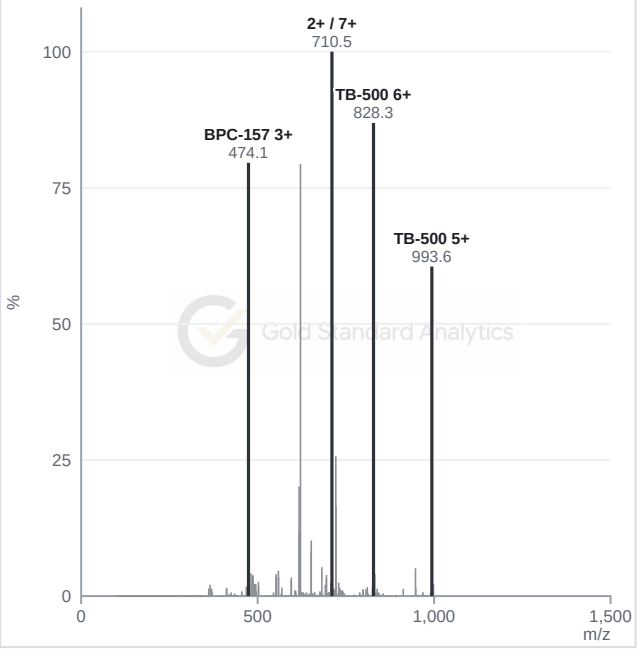
HPLC CHROMATOGRAM

UV, 214 nm



MASS SPECTRUM

main peak (11.39 min): both peptides



RELEASED BY

Ian Ebert
Laboratory Director · Nov 16, 2026

Scan to verify
goldstandardanalytics.com/coa/

Results are not covered by ISO/IEC 17025 accreditation. Results relate only to the sample as received and tested.

The sample

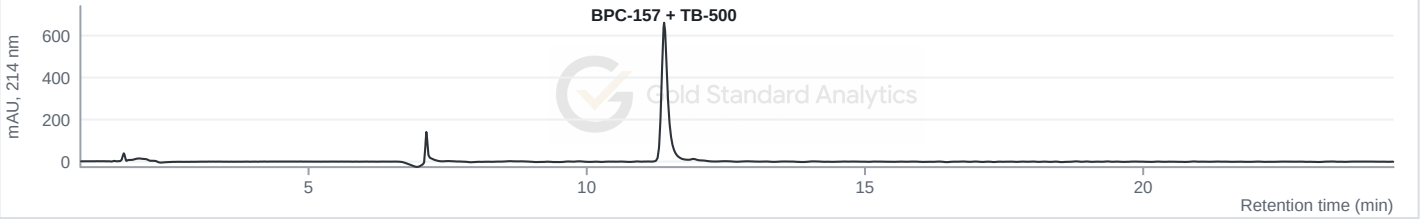
Order GSA-2026-000075 · Sample 075-03 · Western Regenerative Supply, LLC

Customer	**Western Regenerative Supply, LLC**	Prepared	**12 Nov 2026**
Order	**GSA-2026-000075**	Tested	**12 Nov 2026**
Sample	**075-03**	Tests	**Identity, Purity**
Label	**Wolverine Blend, Bpc 157/Tb500, 20mg**		

Graphs

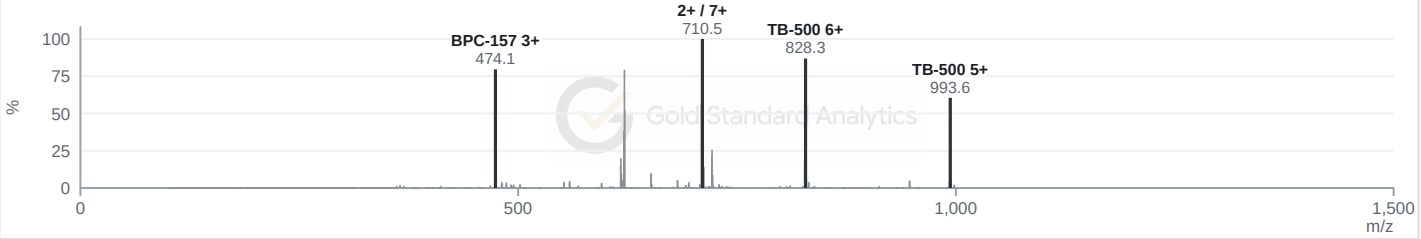
HPLC CHROMATOGRAM

HPLC chromatogram (UV, 214 nm) · mAU, 214 nm against Retention time (min)



MASS SPECTRUM

Mass spectrum of the main peak (11.39 min): both peptides · Counts against m/z



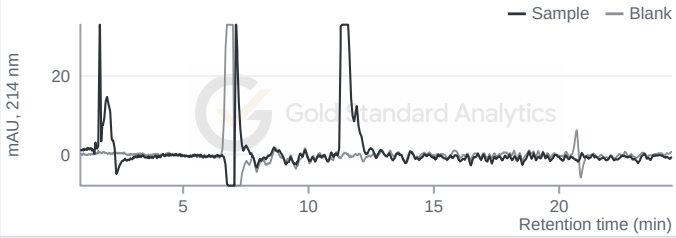
Results

Identity	**Both declared components found** by their molecular mass: BPC-157 (measured 1,419.0, expected 1,419.5) and TB-500 as full-length thymosin beta-4 (measured 4,964, expected 4,963). The two peptides come off the column together, at 11.39 min.
Purity	**100 %** of the UV peak area at 214 nm is the declared peptides: no other peak was found above the reporting limit (about 1.3 % of the main peak height). The vial also contains a sugar alcohol such as mannitol (a common vial filler), seen by mass at the start of the run; it is not a peptide and is not counted in purity. The large peak at about 7.1 min in the chromatogram comes from the instrument, not the sample: the same peak appears when only blank solvent is injected.
Composition	BPC-157 and TB-500 elute together on this method, so the share of each in the blend cannot be measured by UV.

Zoomed views

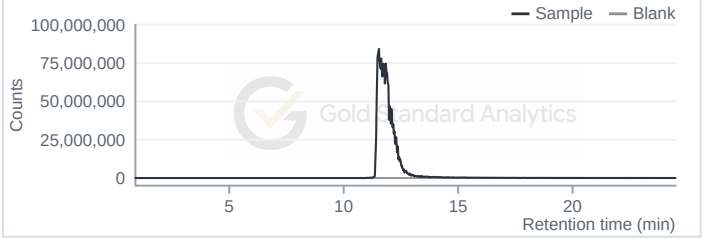
HPLC, SMALL PEAKS

Zoomed in on the small peaks (5 % of the main peak) · mAU, 214 nm against Retention time (min)



ION TRACE

Ion trace, m/z 828.2 (TB-500 6+): sample vs blank · Counts against Retention time (min)



Impurities

Every UV peak above the reporting limit was the declared peptides.

Amounts are each peak's share of the total UV peak area at 214 nm.

How it was tested

Liquid chromatography with UV and mass-spectrometry detection: Agilent 1290 Infinity II LC with a 6490 triple-quadrupole mass spectrometer. Column Polaris C18-A, 2.0 x 150 mm, 45 °C; water and acetonitrile, each with 0.1 % formic acid. Purity: UV peak area at 214 nm. Identity: molecular mass of each component.

Notes

Results apply only to the sample as received and tested.

Release

This report is signed electronically at release. The signature is printed on page 1, and the release record, added as the last page, gives the date and the verification code.

Gold Standard Analytics

goldstandardanalytics.com

Release record

Report GSA-COA-000075-07503-20261112 · Certificate GSA-2026-547347

Customer and order	Western Regenerative Supply, LLC · GSA-2026-000075
Sample and report	075-03 · BPC-157 / TB-500 Certificate of Analysis
Report reference	GSA-COA-000075-07503-20261112
Certificate accession	GSA-2026-547347
Released and signed by	Ian Ebert, Laboratory Director
Date and time (UTC)	2026-11-16 21:08:15Z
Signature meaning	Approved for release. The signer reviewed this report and approved its release to its customer.
Approval reference	64aecd62-c186-4eb5-9646-ac0108864530
Electronic signature	Signed electronically in a signed-in GSA staff account.
Original report SHA-256	98ca736426daf2c7e8c6906e539159bb4a4549aaf13391b1f47e9ef180097d7b
Verify this certificate	https://goldstandardanalytics.com/coa/GSA-2026-547347

Scan to view this certificate online

Signature



Ian Ebert, Laboratory Director

Results are not covered by ISO/IEC 17025 accreditation.
Results relate only to the sample as received and tested.