Gold Standard Analytics

Gold Standard Analytics LLC, Houston, TX

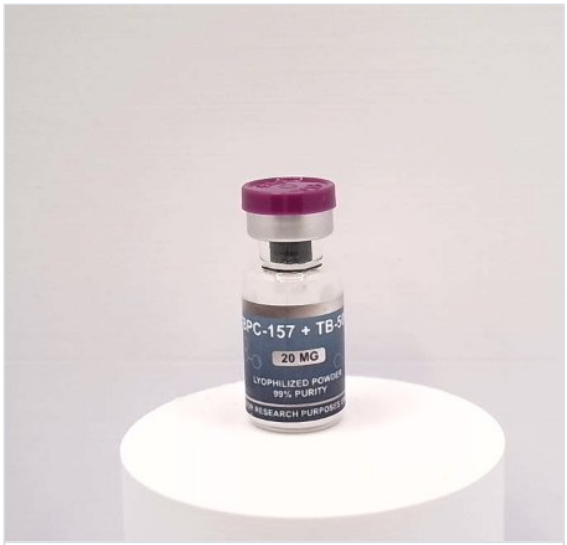
CERTIFICATE OF ANALYSIS

Report GSA-COA-000082-08202-20261117 · issued Nov 23, 2026

Ben Young

PRODUCT	ORDER	SAMPLE
BPC-157 / TB-500 blend	GSA-2026-000082	082-02

LOT	ISSUED
BB/260824	Nov 23, 2026



THE SAMPLE AS RECEIVED

IDENTITY ✓

BPC-157, TB-500

2 declared components found

PURITY ✓

98.24 %

HPLC-UV, 214 nm

BPC-157 ✓

Found

by mass; comes off together with TB-500

TB-500 ✓

Found

by mass; comes off together with BPC-157

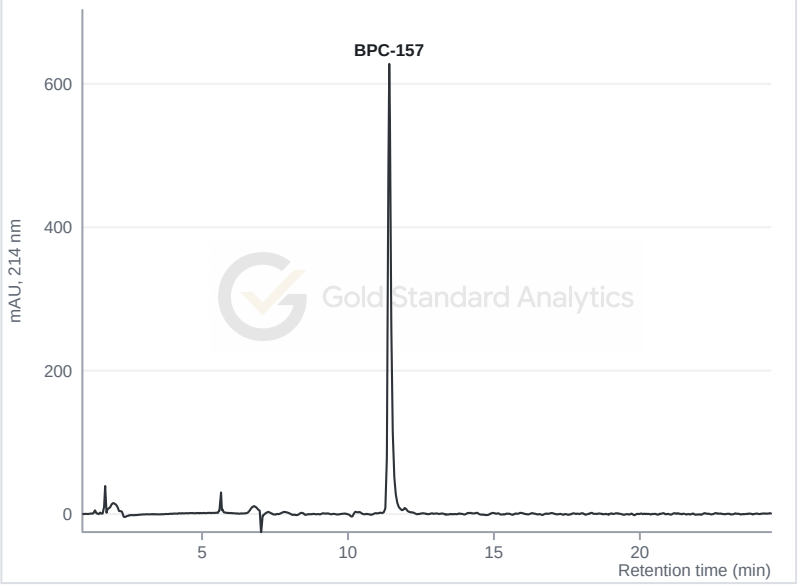
○ **BPC-157 content** — **Not determined**

no reference standard run with this sample

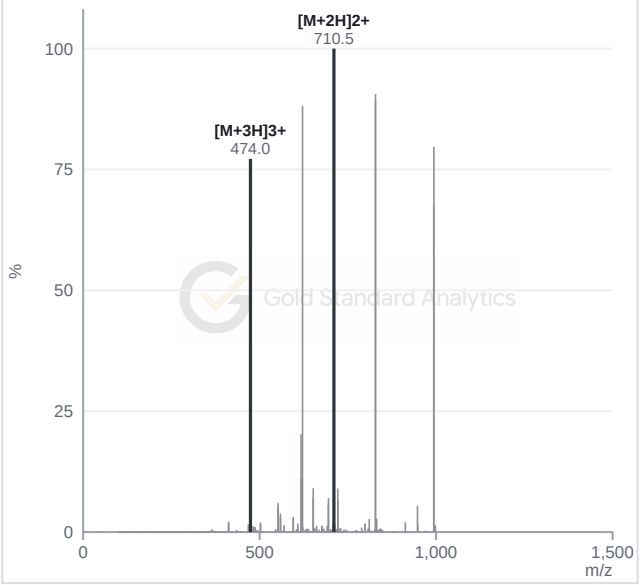
○ **TB-500 content** — **Not determined**

no reference standard run with this sample

HPLC CHROMATOGRAM — UV, 214 nm



MASS SPECTRUM — main peak (11.41 min)



RELEASED BY

Ian Ebert

Laboratory Director · Nov 24, 2026

Scan to verify

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

The sample

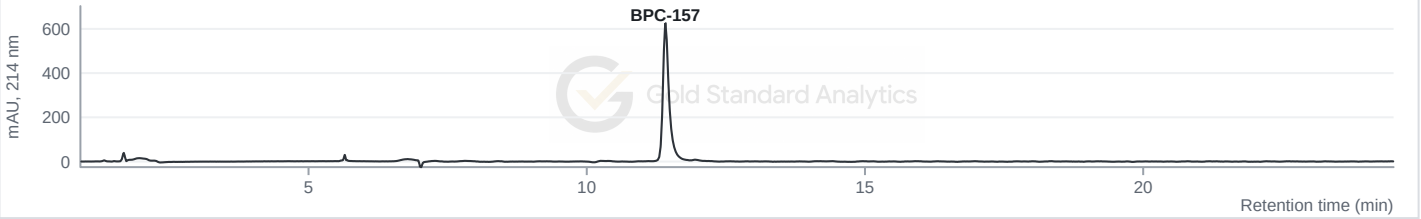
Order GSA-2026-000082 · Sample 082-02 · Ben Young

Customer	**Ben Young**	Lot	**BB/260824**
Order	**GSA-2026-000082**	Prepared	**16 Nov 2026**
Sample	**082-02**	Tested	**17 Nov 2026**
Label	**BPC-157 / TB-500 blend; declared 20 mg**	Tests	**Identity, Purity, Impurity breakdown, Net content**

Graphs

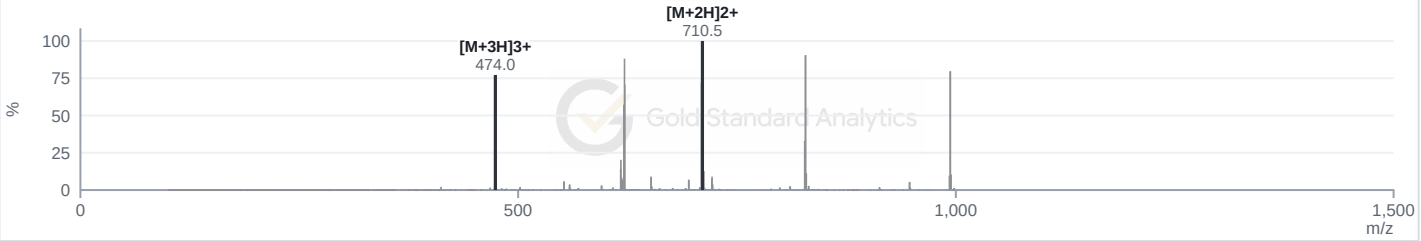
HPLC CHROMATOGRAM

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



MASS SPECTRUM

Mass spectrum of the main peak (11.41 min) · Counts against m/z



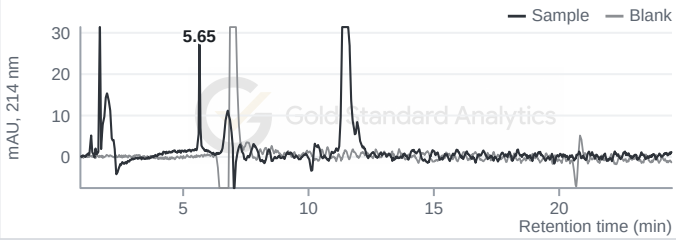
Results

Identity	**All declared components found** by their molecular mass: BPC-157 at 11.41 min (m/z 710.5 and m/z 474.0; measured mass 1,419.0, expected 1,419.5); TB-500 as full-length thymosin beta-4 at 11.41 min (m/z 993.7 and m/z 828.3; measured mass 4,964.4, expected 4,963.4). BPC-157 and TB-500 come off the column together.
Purity	**98.24 %** by HPLC with UV detection at 214 nm (share of the total peak area), counting all declared components together. 1 impurity was found and is listed below. Unexplained peaks count above about 1.4 % of the smallest declared component's peak height; forms of the peptides identified by mass count down to about 0.9 % of it. The large peak at about 6.8 min comes from the instrument, not the sample: it also appears in blank runs.
Composition	Share of the declared-peptide UV area at 214 nm: BPC-157 + TB-500 together 100.00 %. These are shares of UV signal, not of weight: the peptides absorb UV differently, so the split by weight cannot be read from them. BPC-157 and TB-500 come off together, so their individual shares cannot be measured by UV.
Net content	**Not determined.** An amount in mg needs a reference standard of each peptide run in the same sequence; none was run with this sample, so no amount is reported and none is estimated. BPC-157 and TB-500 also come off the column together on this method, so they could not be measured separately.

Zoomed views

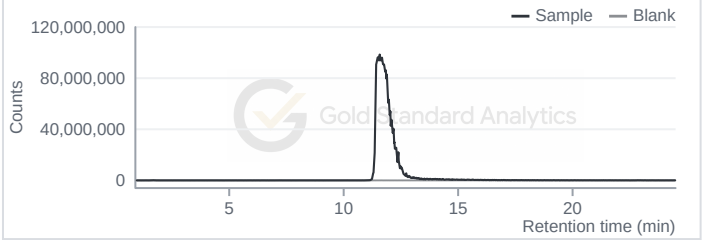
HPLC, SMALL PEAKS

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



ION TRACE

Ion trace, m/z 710.4 (BPC-157 [M+2H]2+): sample vs blank · Counts against Retention time (min)



Impurities

Every peak other than the declared peptides that was counted:

PEAK (MIN)	AMOUNT	WHAT IT IS
5.65	1.76 %	An unidentified substance that is not a form of BPC-157 or TB-500 (its mass does not match).

> 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, after subtracting a blank run in the same sequence. Identity: molecular mass from the mass spectrum. 2 µL injected; autosampler at 12 °C.

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-000082-08202-20261117 · Certificate GSA-2026-375281

Customer and order	Ben Young · GSA-2026-000082
Sample and report	082-02 · BPC-157 / TB-500 blend Certificate of Analysis
Report reference	GSA-COA-000082-08202-20261117
Certificate accession	GSA-2026-375281
Released and signed by	Ian Ebert, Laboratory Director
Date and time (UTC)	2026-11-24 01:20:25Z
Signature meaning	Approved for release. The signer reviewed this report and approved its release to its customer.
Approval reference	5a25aca0-4466-4fcd-a9e5-e348d42d640c
Electronic signature	Signed electronically in a signed-in GSA staff account.
Original report SHA-256	659d2573ba4a435f1acf526341d7d853f8df5c4902915f1c24e170efdcbd15da
Verify this certificate	https://goldstandardanalytics.com/coa/GSA-2026-375281

Scan to view this certificate online

Signature

Ian Ebert, Laboratory Director

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