Talumer Sciences

CERTIFICATE OF ANALYSIS · LOT RELEASE

talumersciences.com

CERTIFICATE NO.
PL-26-00010

VERIFICATION KEY
NHQJF7DW

Scan or enter both at prymalab.net/testing/verify

CERTIFICATE OF ANALYSIS · LOT RELEASE · ISSUED FOR TALUMER SCIENCES

BPC-157 10 mg

Lot **PL-2609-010** · Lyophilized powder · Label claim **10 mg/vial**

TESTED IN-HOUSE BY PRYMALAB

In-house analytical result, not an independent third-party test

LOT / BATCH NUMBER	DATE MADE	DATE OF ANALYSIS	DATE ISSUED
PL-2609-010	2026-09-17	2026-09-19	2026-10-03

RETEST / EXPIRY	UNITS IN LOT / SAMPLED	STORAGE	CERTIFICATE TYPE
2028-09-17	250 / 2	−20 °C, desiccated, dark	Lot COA, 2 pages

COMPOUND
BPC-157
Body Protection Compound-157; pentadecapeptide

CAS NUMBER
137525-51-0

MOLECULAR FORMULA
$C_{62}H_{98}N_{16}O_{22}$

THEORETICAL MASS (AVG.)
1419.6 Da

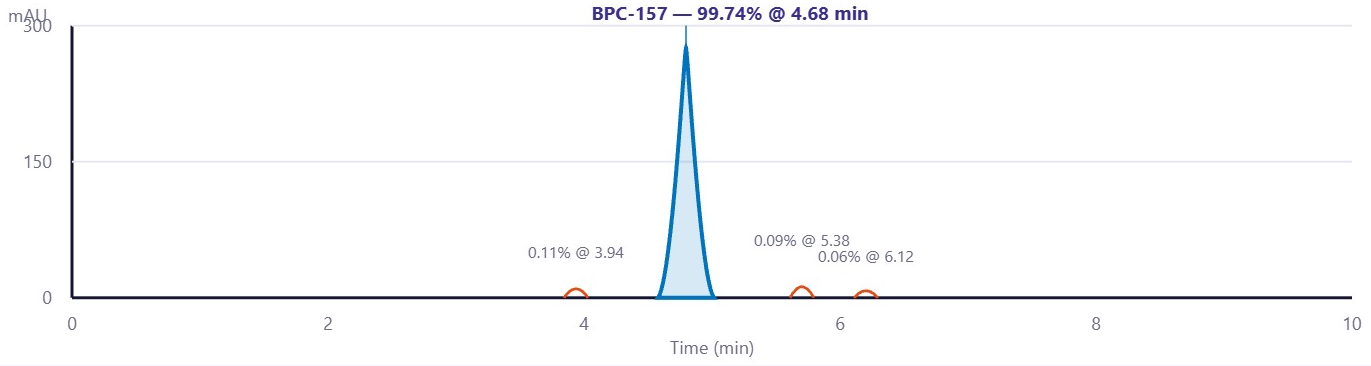
SEQUENCE
`H-GEPPPGKPADDAGLV-OH (15 residues; free N- and C-termini)`

PURITY · RP-HPLC, AREA %	IDENTITY · OBSERVED MASS	OVERALL CONCLUSION
99.74%	**1419.8 Da**	**PASS**
Specification 99.0 % • main peak at 4.68 min	Theoretical 1419.6 Da • +0.2 Da (139 ppm)	Meets every specification for the tests performed

TEST	METHOD	SPECIFICATION	RESULT	CONCLUSION
Appearance	Visual inspection	White to off-white lyophilized powder	White lyophilized powder	**PASS**
Identity (mass)	LC-MS, ESI positive	Theoretical ± 1.0 Da	1419.8 Da	**PASS**
Purity	RP-HPLC, UV 214 nm, area%	99.0 %	99.74 %	**PASS**
Largest impurity	RP-HPLC, area%	1.0 %	0.11 % at 5.38 min	**PASS**
Water content	Karl Fischer	5.0 %	1.7 %	**PASS**
Bacterial endotoxin	LAL, kinetic	≤ 5.0 EU/mg	0.05 EU/mg	**PASS**
Sterility / bioburden	USP <71>, membrane filtration	No growth after 14 days	No growth; conforms	**PASS**

1 HPLC CHROMATOGRAM

Data file: BPC_PL-2609-010_20260919_01 · Column C18, 150 × 4.6 mm · UV 214 nm



Baseline uncropped; main peak and impurities labeled with retention times. Peak table on page 2.

For laboratory research use only. Not for human or veterinary use.

2 HPLC METHOD · BPC_PL-2609-010_20260919_01

INSTRUMENT
Waters Alliance e2695, SN E2695B742

DATA SYSTEM
Empower 3, Build 3471

DETECTOR
Waters 2998 PDA

DETECTION WAVELENGTH
214 nm

COLUMN
C18, 150 × 4.6 mm, 3.5 µm

COLUMN PART / SERIAL
186003326 / USHX18211

MOBILE PHASE A
0.1% TFA in water

MOBILE PHASE B
0.1% TFA in MeCN

FLOW RATE
1.0 mL/min

COLUMN TEMPERATURE
30 °C

INJECTION VOLUME
20 µL

RUN TIME
10 min

SAMPLE DILUENT
Water, 0.1% TFA

SAMPLE CONCENTRATION
0.5 mg/mL

BLANK INJECTED
Yes

REFERENCE STANDARD
In-house BPC-157 reference, lot PL-RS-BPC-01, RT 4.66 min

3 GRADIENT PROGRAM

TIME (MIN)	% A	% B
0.0	95	5
3.0	95	5
7.0	55	45
8.0	20	80
9.0	20	80
10.0	95	5

4 PEAK TABLE

PEAK	RT (MIN)	AREA	AREA %
1	3.94	4,730	0.11
2	**4.68**	**4,288,820**	**99.74**
3	5.38	3,870	0.09
4	6.12	2,580	0.06
Total		4,300,000	100.00

Threshold 0.05% area · Blank subtracted: Y · Purity = main peak area ÷ total integrated area × 100, to two decimals; main peak shaded.

5 IDENTITY BY MASS SPECTROMETRY

INSTRUMENT
Waters Acquity SQD

IONIZATION / MODE
ESI, positive

OBSERVED M/Z (CHARGE)
1420.3 (1+ [M+H]) · 1442.2 (1+ [M+Na])

DECONVOLUTED MASS
1419.8 Da

THEORETICAL MASS
1419.6 Da

DIFFERENCE
+0.2 Da (139 ppm)

DATA FILE
BPC_PL-2609-010_MS_20260919_01

ACCEPTANCE
Within ± 1.0 Da

6 ADDITIONAL TESTS

TEST	PERFORMED BY	DATE	REPORT / FILE
Water content	PrymaLab	2026-09-20	RPT-KF-PL-2609-010
Endotoxin	PrymaLab	2026-09-21	RPT-ET-PL-2609-010
Sterility	PrymaLab	2026-10-02	RPT-ST-PL-2609-010

A test with no row here was not performed on this lot. Outside-laboratory reports, when used, are attached and named below.

7 REVIEW AND APPROVAL

D. Reynolds
Analyst · performed the testing
Date: 2026-09-19

S. Calloway
Reviewer · checked against raw data
Date: 2026-10-02

M. Phelps
Lab Director · approved for release
Date: 2026-10-03

Raw data retained at: Empower 3 (Build 3471), project PL-2609, archive PL-ARC-2026; 7 years. Outside laboratory reports attached: None

This certificate applies only to the lot named above and describes the units sampled from it; it is not a guarantee for any other lot. Results were obtained by PrymaLab LLC's own laboratory (PrymaLab Analytical) and are not an independent third-party test unless an outside report is attached. This copy is issued for Talumer Sciences, a distributor of the lot; the brand shown does not change the laboratory, the method or the results. Reference values (CAS, formula, theoretical mass, sequence) are literature values for the named compound. Authenticity: scan the QR code or enter certificate number PL-26-00010 and key NHQJF7DW at prymalab.net/testing/verify; any copy that does not match the record shown there is not a PrymaLab certificate. PrymaLab LLC products are supplied for laboratory research use only and not for human or veterinary use.