



CERTIFICATE NO.

PL-26-00043

VERIFICATION KEY

86MP9DE8

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

CERTIFICATE OF ANALYSIS · LOT RELEASE · ISSUED FOR BIG BANG COMPOUNDS

GLOW Blend 70 mg

Lot PL-2609-043 · Lyophilized co-blend powder · Label claim 70 mg/vial · Distributed as BPC-157 / TB-500 / GHK-Cu

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-2609-043	2026-09-15	2026-09-17	2026-10-03
RETEST / EXPIRY	UNITS IN LOT / SAMPLED	STORAGE	CERTIFICATE TYPE
2028-09-15	250 / 2	-20 °C, desiccated, dark	Lot COA, 2 pages

COMPOUND	CAS NUMBER	MOLECULAR FORMULA	THEORETICAL MASS (AVG.)
GLOW Blend	89030-95-5 · 137525-51-0 · 77591-33-4	C ₁₄ H ₂₂ CuN ₆ O ₄ · C ₆₂ H ₉₈ N ₁₆ O ₂₂ · C ₂₁₂ H ₃₅₀ N ₅₆ O ₇₈ S	401.9 · 1419.6 · 4963.5 Da (GHK-Cu / BPC-157 / TB-500 (Thymosin β4))
GHK-Cu + BPC-157 + TB-500 co-lyophilized blend			

COMPOSITION AND SEQUENCES
GHK-Cu 50 mg: H-GHK-OH · Cu(II) (1:1 copper complex) · BPC-157 10 mg: H-GEPPPGKPADDAGLV-OH (15 residues; free N- and C-termini) · TB-500 (Thymosin β4) 10 mg: Ac-SDKPDAIEIKFDKSKLKKTTETQEKNP LPSKETIEQEKQAGES-OH (43 residues; N-acetyl; free C-terminus)

PURITY · RP-HPLC, AREA %

99.72%

Specification 99.0% · blend purity — sum of the three component peaks

IDENTITY · OBSERVED MASS

3 / 3

Components confirmed by LC-MS within ± 1.0 Da: 402.1 / 1419.8 / 4963.7 Da

OVERALL CONCLUSION

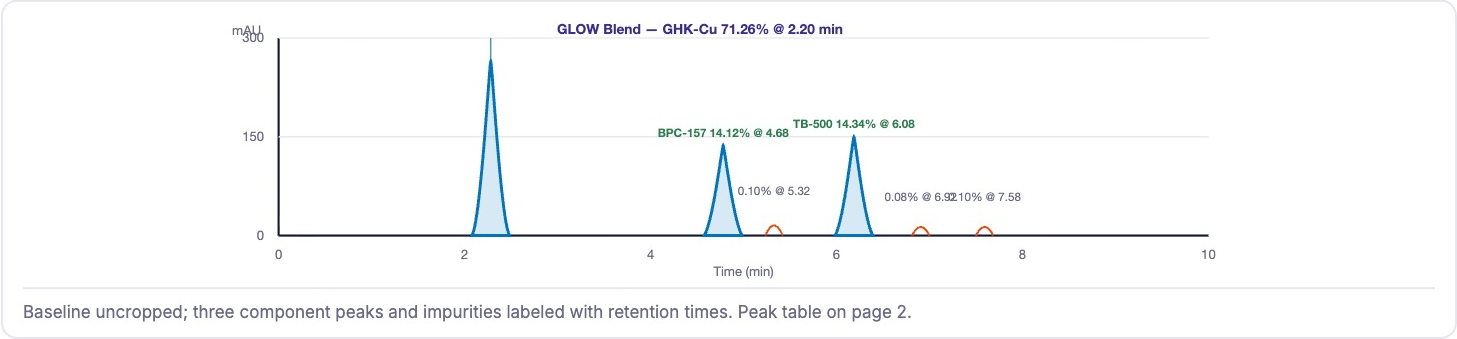
PASS

Meets every specification for the tests performed

TEST	METHOD	SPECIFICATION	RESULT	CONCLUSION
Appearance	Visual inspection	Blue to blue-violet lyophilized cake (GHK-Cu copper complex)	Blue lyophilized cake	PASS
Identity (mass)	LC-MS, ESI positive	Theoretical ± 1.0 Da, each component	3/3 components confirmed	PASS
Purity	RP-HPLC, UV 214 nm, area%	99.0% (blend)	99.72%	PASS
Largest impurity	RP-HPLC, area%	1.0%	0.10 % at 5.32 min	PASS
Water content	Karl Fischer	5.0%	2.0%	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: GLOW_PL-2609-043_20260917_01 · Column C18, 150 × 4.6 mm · UV 214 nm



2 HPLC METHOD · GLOW_PL-2609-043_20260917_01

INSTRUMENT	DATA SYSTEM	DETECTOR
Waters Alliance e2695, SN E2695B742	Empower 3, Build 3471	Waters 2998 PDA
DETECTION WAVELENGTH	COLUMN	COLUMN PART / SERIAL
214 nm	C18, 150 × 4.6 mm, 3.5 µm	186003326 / USHX18211
MOBILE PHASE A	MOBILE PHASE B	FLOW RATE
0.1% TFA in water	0.1% TFA in MeCN	1.0 mL/min
COLUMN TEMPERATURE	INJECTION VOLUME	RUN TIME
30 °C	20 µL	10 min
SAMPLE DILUENT	SAMPLE CONCENTRATION	BLANK INJECTED
Water, 0.1% TFA	0.5 mg/mL (blend)	Yes
REFERENCE STANDARD	In-house GLOW blend reference, lot PL-RS-GLO-01, component RTs 2.18 / 4.66 / 6.06 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 (GHK-Cu)	2.20	3,064,180	71.26
2 (BPC-157)	4.68	607,160	14.12
3	5.32	4,300	0.10
4 (TB-500)	6.08	616,620	14.34
5	6.92	3,440	0.08
6	7.58	4,300	0.10
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	IONIZATION / MODE	OBSERVED M/Z (CHARGE)
Waters Acquity SQD	ESI, positive	402.8 · 1420.3 (1+ [M+H], GHK-Cu · BPC-157) · 1241.9 (4+ [M+4H]) · 993.7 (5+ [M+5H], TB-500)
DECONVOLUTED MASS	THEORETICAL MASS	DIFFERENCE
402.1 / 1419.8 / 4963.7 Da (by component)	401.9 / 1419.6 / 4963.5 Da (GHK-Cu / BPC-157 / TB-500)	≤ +0.2 Da (per component)
DATA FILE	ACCEPTANCE	
GLOW_PL-2609-043_MS_20260917_01	Within ± 1.0 Da (each component)	

6 ADDITIONAL TESTS

TEST	PERFORMED BY	DATE	REPORT / FILE
Water content	PrymaLab	2026-09-18	RPT-KF-PL-2609-043
Endotoxin	PrymaLab	2026-09-19	RPT-ET-PL-2609-043
Sterility	PrymaLab	2026-10-01	RPT-ST-PL-2609-043
Peptide content (blend assay)	PrymaLab	2026-09-18	RPT-AA-PL-2609-043

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	S. Calloway	M. Phelps
Analyst · performed the testing	Reviewer · checked against raw data	Lab Director · approved for release
Date: 2026-09-17	Date: 2026-10-02	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 Big Bang Compounds, 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-26-00043 and key 86MP9DE8 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.