



Certificate of Analysis

Date: 9/2/2026 **Date Tested:** 8/11/2026
Customer: Peptides Optimized LLC **Testing material:** GLOW (GHK-Cu + BPC-157 + TB-500)
Batch #: GLOW70-J14 **BT Sample ID:** 005000841413575
Labeled Peptide: 70 mg **Storage:** 2–8°C
Content/Potency:
Visual Description: Small clear vial: blue lyophilized powder, hexagon-pattern label, grey aluminum crimp, black flip-off cap.
Labeled as: GLOW (GHK-Cu + BPC-157 + TB-500) **Manufacturer:** N/A
Testing Purpose: HPLC and LC-MS analysis for the identification, purity and potency of each peptide in this multi-peptide product. It additionally reports elemental impurities (heavy metals), bacterial endotoxins and sterility as recorded in this certificate.



Test	Method	Specification	Result	Status
General Appearance	Visual	Blue to blue-violet powder	Blue lyophilized powder	PASS
GHK-Cu — HPLC Purity	USP <621>	NLT 98.0 % (area normalisation)	99.45 %	PASS
GHK-Cu — HPLC Potency	USP <621>	90.0 – 110.0 % of 50 mg	50.22 mg (100.4 %)	PASS
GHK-Cu — Identity (LC-MS)	LC-MS (ESI)	Observed mass within 1 Da of theoretical	Conforms	PASS
BPC-157 — HPLC Purity	USP <621>	NLT 98.0 % (area normalisation)	99.45 %	PASS
BPC-157 — HPLC Potency	USP <621>	90.0 – 110.0 % of 10 mg	10.11 mg (101.1 %)	PASS
BPC-157 — Identity (LC-MS)	LC-MS (ESI)	Observed mass within 1 Da of theoretical	Conforms	PASS
TB-500 — HPLC Purity	USP <621>	NLT 98.0 % (area normalisation)	99.45 %	PASS
TB-500 — HPLC Potency	USP <621>	90.0 – 110.0 % of 10 mg	10.21 mg (102.1 %)	PASS
TB-500 — Identity (LC-MS)	LC-MS (ESI)	Observed mass within 1 Da of theoretical	Conforms	PASS
Heavy Metals (Elemental Impurities)	USP <233> (ICP-MS)	Class 1 (Pb, Cd, As, Hg): NMT USP <232>/ICH Q3D limits	Complies (< LOQ)	PASS

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Laboratory Director
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QA Approver
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The results of the CoA relate only to the item(s) tested and applied to the sample as received.

Signed 9/2/2026
COA # 7966876

ACCESS CODE **Q18AIXC8BUYJ**

VERIFY AT www.genesisbiolabs.org/verify

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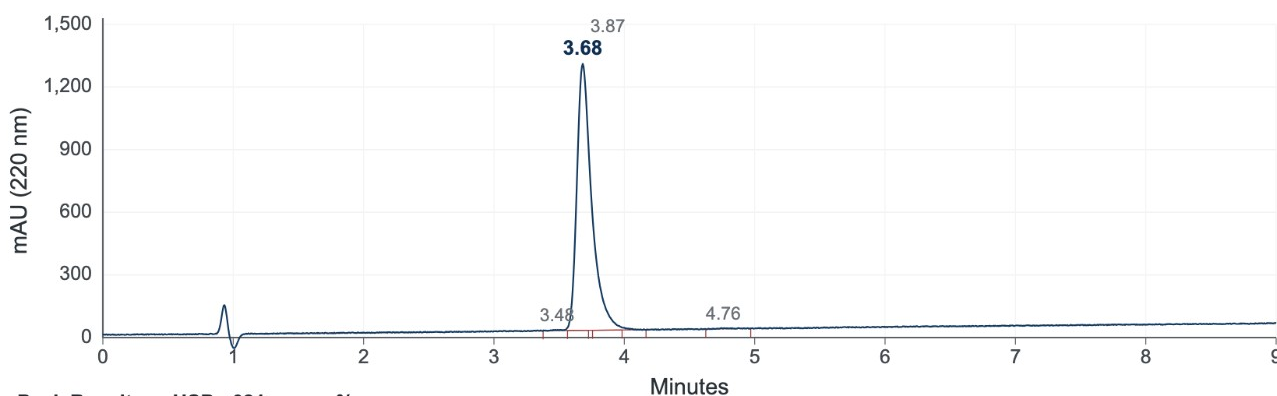
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Product: GLOW (GHK-Cu + BPC-157 + TB-500) **Batch #:** GLOW70-J14 **Content:** 70 mg **Tested:** 8/11/2026

HPLC Purity Chromatogram @ 220 nm: GLOW (GHK-Cu + BPC-157 + TB-500) Lot GLOW70-J14

Sample Name: GLOW 70 mg
Sample ID / Lot: GLOW70-J14
Method: PEP_TFA_220_GRAD.M
Column: Kinetex EVO C18, 4.6 x 100 mm, 2.6 um
Signal: VWD1 A, 220 nm
Mobile Phase: A 0.1% TFA/H₂O, B 0.1% TFA/MeCN (gradient)

Injection Volume: 10.0 uL
Acquired: 8/11/2026 14:12
Vial: 34 **Injection:** 1
Operator: A. Ivanova
Flow: 1.2 mL/min **Column Temp:** 30 C
System: HPLC-02



Peak Results - USP <621>, area %

Pk	RT (min)	Area (mAU*s)	Height (mAU)	Area %	USP Res.	USP Tailing	USP Plates
1	3.48	20	3.0	0.20	-	-	-
2	3.68	10,144	1,276	99.45	1.07	1.58	5,691
3	3.87	20	2.6	0.20	-	-	-
4	4.76	15	2.0	0.15	-	-	-
Total		10,200		100.00			

OpenLab CDS | Processing method: USP_PURITY_AREAPCT | Result: main peak 99.5 % (area) | Page 1 of 1



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Heavy Metals Analysis (ICP-MS, USP <233>)

Element	Specification	Result	Status
Arsenic (As)	NMT 1.5 ppm	Not Detected	PASS
Cadmium (Cd)	NMT 0.5 ppm	Not Detected	PASS
Mercury (Hg)	NMT 1.5 ppm	Not Detected	PASS
Lead (Pb)	NMT 1 ppm	Not Detected	PASS
Chromium (Cr)	NMT 10 ppm	Not Detected	PASS

Elemental impurities determined by ICP-MS. Limits are laboratory screening limits for research-use material, derived from ICH Q3D permitted daily exposures for the parenteral route.

Test	Method	Specification	Result	Status
Bacterial Endotoxins Test	USP <85>	NMT 40 EU/vial reconstituted	PASS	PASS

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Bacterial Endotoxins Test GLOW (GHK-Cu + BPC-157 + TB-500) Lot GLOW70-J14

Sample ID	Description	Volume (mL)	Endotoxin Limit (EU/vial)	Lysate Sensitivity (λ, EU/mL)	Result
GLOW70-J14	GLOW (GHK-Cu + BPC-157 + TB-500)	3	40 EU/vial	0.25	.08 EU/vial

The sample passed a valid gel clot endotoxin test based on the type, mode of administration and dosage.

Sterility Test

Test	Method	Specification	Result	Status
Sterility	USP <71> (membrane filtration)	No microbial growth	PASS	PASS

Medium	Incubation Temp.	Duration	Units Tested	Observation
Fluid Thioglycollate Medium (FTM)	30 – 35 °C	14 days	2	No growth
Soybean–Casein Digest Medium (SCDM)	20 – 25 °C	14 days	2	No growth

No microbial growth was observed. The sample meets the requirements of the sterility test (USP <71>).

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Product: GLOW (GHK-Cu + BPC-157 + TB-500) **Batch #:** GLOW70-J14 **Content:** 70 mg **Tested:** 8/11/2026

Notes & Methodology

1. Peptide purity determined by RP-HPLC area normalisation at 220 nm. The value represents the percentage of the target peptide relative to all peptide-related peaks. Non-peptide process-related impurities, where detected, are excluded from the calculation.
2. Net peptide content (potency) calculated as assay content corrected for water (Karl Fischer) and counterion content, expressed as a percentage of the labelled claim.
3. Identity confirmed by FTIR against a reference standard (USP <197A>) and by chromatographic retention time comparison.
4. Elemental impurities screened by ICP-MS per USP <233> methodology. Acceptance criteria are laboratory screening limits for research-use material and do not constitute evaluation against a specific pharmacopoeial monograph.
5. Bacterial endotoxins determined by gel-clot method per USP <85>. Sterility per USP <71>.
6. The chromatogram reproduced in this certificate is representative of the batch tested.