Analytical Testing Laboratory
7271 Engle Rd Unit 201A, Middleburg Heights, OH 44130
www.sonic-laboratories.com
COA inquiries: info@sonic-laboratories.com
Verify at sonic-laboratories.com/coa-lookup **Code: 62U2994S**

CERTIFICATE OF ANALYSIS

COA #: **SD20261109_033_GLOW70**

SAMPLE INFORMATION

Client	First Standard Peptides	**Accession #**	SD20261109_033
Compound	GLOW	**Date Received**	11/09/2026
Molecular Formula	Mixed — see composition	**Date Reported**	11/10/2026
Appearance	Blue lyophilized powder	**Labeled Quantity**	70mg
Sample Form	Lyophilized Vial	**Lot / Batch #**	BBG70-26-B001
Storage	Room Temp	**CAS Number**	N/A
Cap Color	Purple		



BLEND COMPOSITION GLOW

Component	Content	Observed Mass	Identity
GHK-Cu	51.44 mg	402	Confirmed
BPC-157	11.87 mg	712	Confirmed
TB4	10.63 mg	344	Confirmed

GHK-Cu reported as GHK content (Copper content):

PUBLISHED TEST CRITERIA

GHK-Cu | Content: Report value (mg).

GHK-Cu | Identity attested: Yes - analyst verified against the reference for all listed vials. Identity: Confirmed.

BPC-157 | Content: Report value (mg).

BPC-157 | Identity attested: Yes - analyst verified against the reference for all listed vials. Identity: Confirmed.

TB4 | Content: Report value (mg).

TB4 | Identity attested: Yes - analyst verified against the reference for all listed vials. Identity: Confirmed.

All Chemical Analysis Performed by LC-MS/MS

ANALYTICAL RESULTS

Test / Analysis	Method	Specification	Result	Status
Purity (Whole Vial)	LC-MS/MS	Report value	99.28%	**Pass**

John Humes, MS. **John Humes, MS.**
Analyzed by · Laboratory Analyst · 11/10/2026

Chetan Soni, PhD. **Chetan Soni, PhD.**
Approved by · Laboratory Director · 11/10/2026

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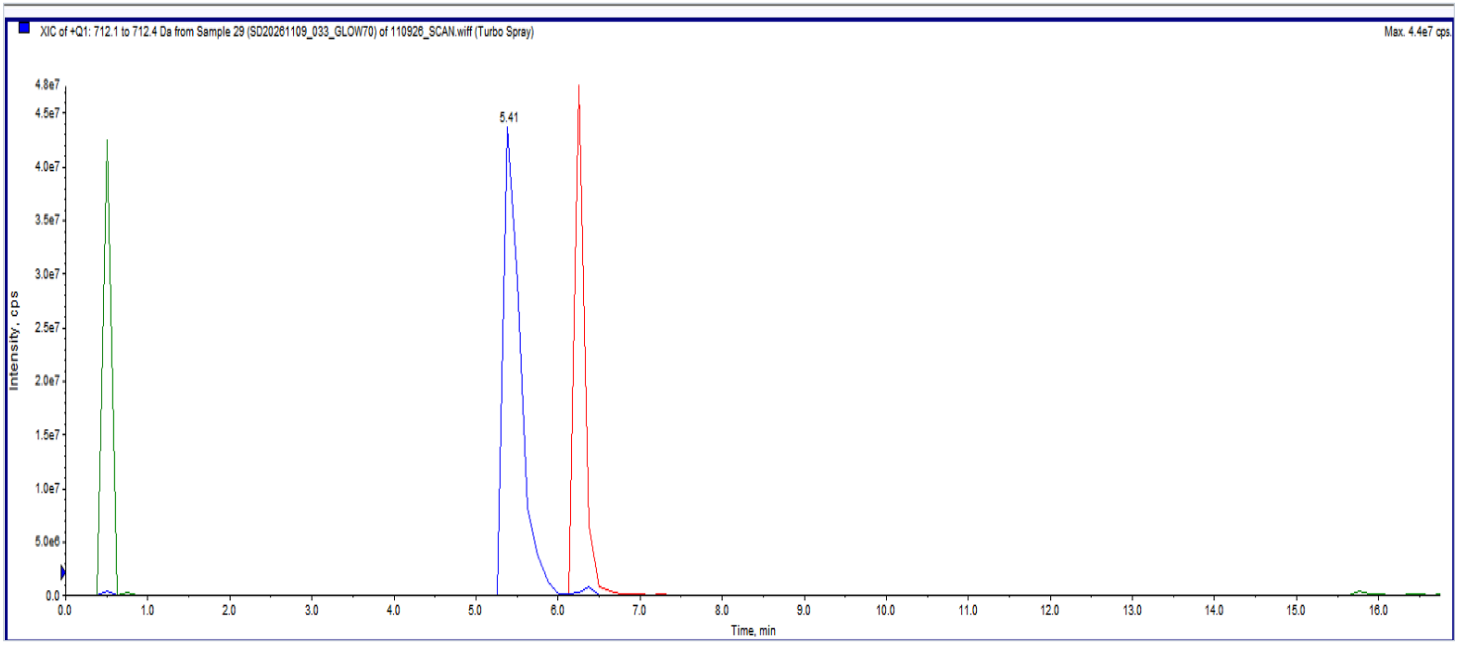
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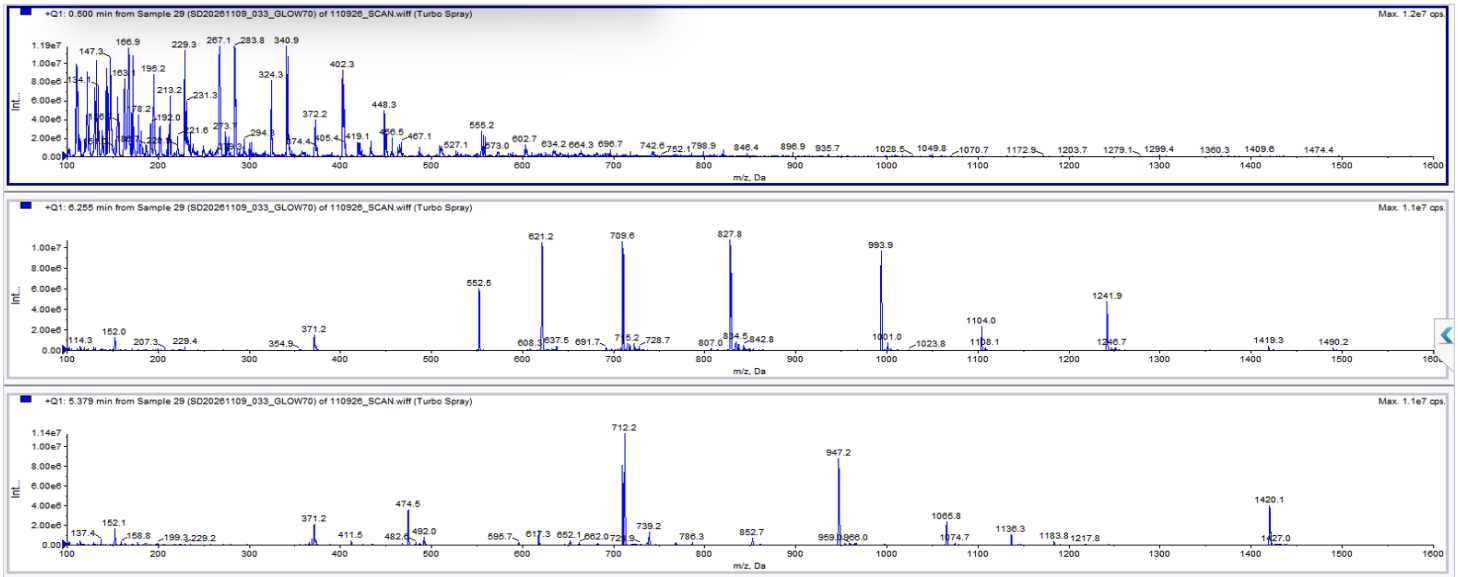
ANALYTICAL DATA

COA #: **SD20261109_033_GLOW70**

CHROMATOGRAM



MASS SPECTRUM (LC-MS)



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ANALYTICAL INTERPRETATION

Chromatogram

Retention Time Match for GHK-Cu, BPC-157, and Thymosin β4 (TB4)

Mass Spectrum (LC-MS)

Sample ID: SD20261109_033_GLOW70
Label Claim: GHK-Cu / BPC-157 / TB4

Observed Ions

GHK-Cu

m/z 402.3, assigned as GHK-Cu

BPC-157

m/z 474.5, assigned as $[M+3H]^{3}$
m/z 712.2, assigned as $[M+2H]^{2}$
m/z 1420.1, assigned as [M+H]+

Thymosin β4 (TB4)

m/z 621.2, assigned as [M+8H]
m/z 709.6, assigned as [M+7H]
m/z 827.8, assigned as [M+6H]
m/z 993.9, assigned as [M+5H]
m/z 1241.9, assigned as $[M+4H]^{4}$
Deconvoluted Mass Calculations

GHK-Cu

m/z 402.3, consistent with the expected protonated molecular ion of GHK-Cu.

BPC-157

m/z 474.5 ($[M+3H]^{3}$) 1420.5 Da
m/z 712.2 ($[M+2H]^{2}$) 1422.4 Da
m/z 1420.1 ([M+H]+) 1419.1 Da

Expected Mass

BPC-157 ≈ 1418.7 Da

Thymosin β4 (TB4)

m/z 621.2 ([M+8H]) 4961.6 Da
m/z 709.6 ([M+7H]) 4960.2 Da
m/z 827.8 ([M+6H]) 4960.8 Da

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m/z 993.9 ([M+5H]) 4964.5 Da
m/z 1241.9 ([M+4H]⁴) 4963.6 Da

Expected Mass

Thymosin β4 ≈ 4963 Da
Interpretation

The spectrum contains ions consistent with all labeled components:

m/z 402.3, assigned as GHK-Cu
m/z 474.5, assigned as BPC-157 [M+3H]³
m/z 712.2, assigned as BPC-157 [M+2H]²
m/z 1420.1, assigned as BPC-157 [M+H]+
m/z 621.2, assigned as TB4 [M+8H]
m/z 709.6, assigned as TB4 [M+7H]
m/z 827.8, assigned as TB4 [M+6H]
m/z 993.9, assigned as TB4 [M+5H]
m/z 1241.9, assigned as TB4 [M+4H]⁴

The observed charge-state distributions and deconvoluted masses are consistent with the expected molecular weights of BPC-157 and Thymosin β4. The ion at m/z 402.3 corresponds to the expected molecular ion of GHK-Cu.

Conclusion

The observed precursor ions are consistent with the presence of GHK-Cu, BPC-157, and Thymosin β4 (TB4). All labeled components were detected and exhibited expected mass spectral characteristics.

Result: PASS – Identity Consistent with GHK-Cu, BPC-157, and Thymosin β4 (TB4).

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