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: MWK3JU6H**

CERTIFICATE OF ANALYSIS

COA #: **SD20261109_032_KLOW80**

SAMPLE INFORMATION

Client	First Standard Peptides	**Accession #**	SD20261109_032
Compound	KLOW	**Date Received**	11/09/2026
Molecular Formula	Mixed — see composition	**Date Reported**	11/10/2026
Appearance	Blue lyophilized powder	**Labeled Quantity**	80mg
Sample Form	Lyophilized Vial	**Lot / Batch #**	BBKG80-26-B001
Storage	Room Temp	**CAS Number**	N/A
Cap Color	Purple		



BLEND COMPOSITION KLOW

Component	Content	Observed Mass	Identity
GHK-Cu	52.35 mg	402	Confirmed
BPC-157	12.59 mg	712	Confirmed
TB-500	11.18 mg	889	Confirmed
KPV	9.88 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.

TB-500 | Content: Report value (mg).

TB-500 | Identity attested: Yes - analyst verified against the reference for all listed vials. Identity: Confirmed.

KPV | Content: Report value (mg).

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

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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All Chemical Analysis Performed by LC-MS/MS

ANALYTICAL RESULTS

Test / Analysis	Method	Specification	Result	Status
Purity (Whole Vial)	LC-MS/MS	Report value	99.19 %	**Pass**

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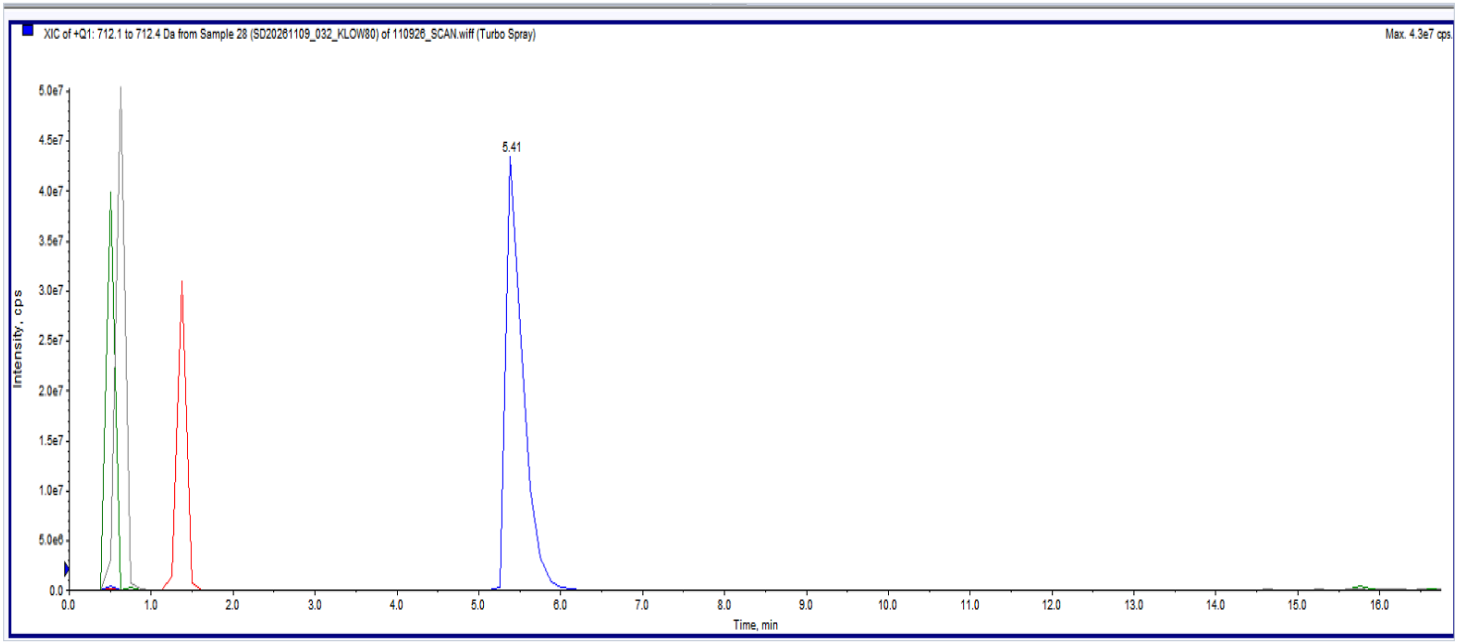
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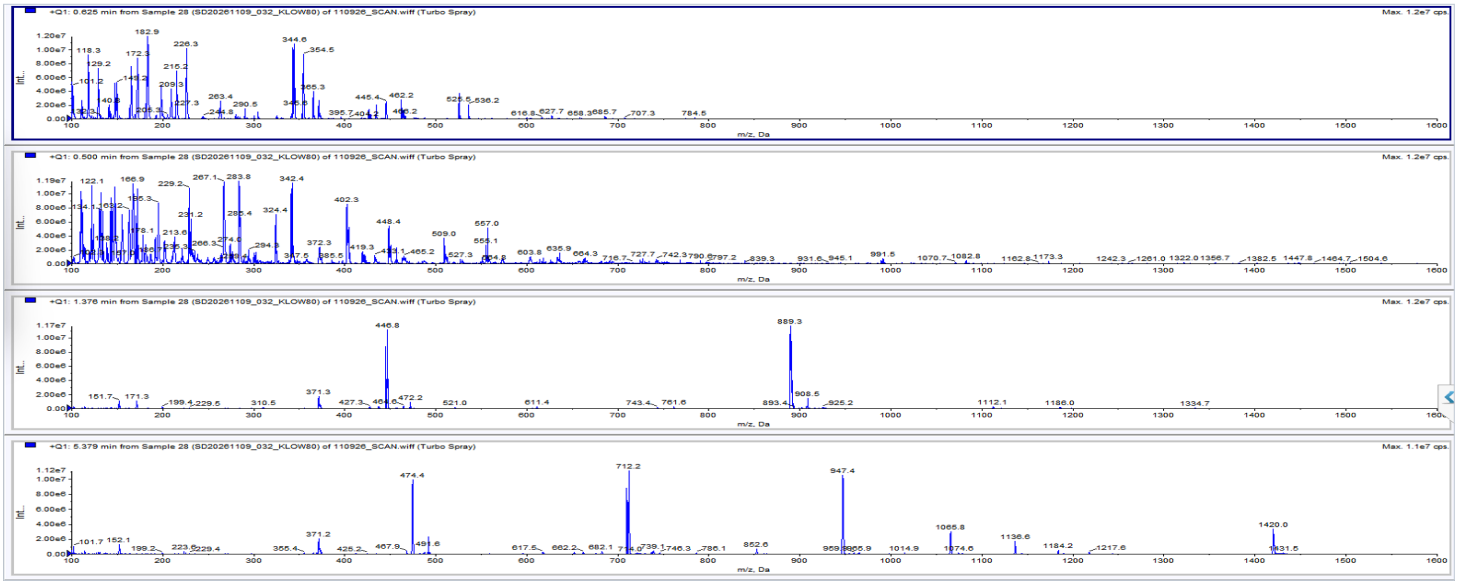
ANALYTICAL DATA

COA #: **SD20261109_032_KLOW80**

CHROMATOGRAM



MASS SPECTRUM (LC-MS)



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ANALYTICAL INTERPRETATION

Chromatogram

Retention Time Match for GHK-Cu, KPV, BPC-157, and TB500

Mass Spectrum (LC-MS)

Sample ID: SD20261109_032_KLOW80
Label Claim: GHK-Cu / KPV / BPC-157 / TB500

Observed Ions

GHK-Cu

m/z 402.3, assigned as GHK-Cu

KPV

m/z 344.6, assigned as KPV [M+H]+

BPC-157

m/z 474.4, assigned as $[M+3H]^{3}$
m/z 712.2, assigned as $[M+2H]^{2}$
m/z 1420.0, assigned as [M+H]+

TB500

m/z 947.4, assigned as [M+5H]
m/z 1184.2, assigned as $[M+4H]^{4}$
Deconvoluted Mass Calculations

KPV

m/z 344.6 ([M+H]+) 343.6 Da

Expected Mass

KPV ≈ 343.4 Da

BPC-157

m/z 474.4 ($[M+3H]^{3}$) 1420.2 Da
m/z 712.2 ($[M+2H]^{2}$) 1422.4 Da
m/z 1420.0 ([M+H]+) 1419.0 Da

Expected Mass

BPC-157 ≈ 1418.7 Da

TB500

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m/z 947.4 ([M+5H]) 4732.0 Da
m/z 1184.2 ([M+4H]⁴) 4732.8 Da

Expected Mass

TB500 ≈ 4731 Da

GHK-Cu

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

The spectrum contains ions consistent with all labeled components:

m/z 402.3, assigned as GHK-Cu
m/z 344.6, assigned as KPV [M+H]+, deconvoluting to 343.6 Da
m/z 474.4, assigned as BPC-157 [M+3H]³, deconvoluting to 1420.2 Da
m/z 712.2, assigned as BPC-157 [M+2H]², deconvoluting to 1422.4 Da
m/z 1420.0, assigned as BPC-157 [M+H]+, deconvoluting to 1419.0 Da
m/z 947.4, assigned as TB500 [M+5H], deconvoluting to 4732.0 Da
m/z 1184.2, assigned as TB500 [M+4H]⁴, deconvoluting to 4732.8 Da

The observed ion pattern is consistent with the expected composition of the KLOW80 blend. The charge-state distributions, molecular ions, and deconvoluted masses support the presence of GHK-Cu, KPV, BPC-157, and TB500.

Conclusion

The observed precursor ions are consistent with the presence of GHK-Cu, KPV, BPC-157, and TB500. All labeled components were detected and exhibited expected mass spectral characteristics.

Result: PASS – Identity Consistent with GHK-Cu, KPV, BPC-157, and TB500.

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