

CLIENT & SAMPLE INFORMATION

Client

N/A

Analysis Date

07/14/2026

Product Name

HAM-B1-059

Form / Matrix

Cosmetic Formulation

This Certificate of Analysis confirms the qualitative identity of the declared peptide active(s) within the submitted cosmetic formulation. Identification was performed by reverse-phase HPLC with UV detection coupled to tandem mass spectrometry (LC-MS/MS). This is an **identity-only** determination — quantitative purity and concentration values are not within the scope of this report.

PEPTIDE IDENTITY (LC-MS/MS)

Each declared active was screened by HPLC-UV with mass-spectrometric confirmation. Identity is confirmed when the observed $[M+H]^+$ matches the theoretical mass within the analytical tolerance and the retention-time / isotope-pattern profile is consistent.

Declared Active	CAS Number	Theoretical m/z $[M+H]^+$	Observed m/z	Status
GHK-Cu	89030-95-5	407.10	407.10	PASS
Overall Identity Determination				PASS

Method: HPLC-UV with LC-MS/MS confirmation. One declared active screened and confirmed present.

TESTING METHODOLOGY & SUBMITTED SAMPLE

Peptide Identity in Cosmetic Matrix (LC-MS/MS)

Each declared active was extracted from the submitted cosmetic formulation and analyzed by reverse-phase HPLC with UV detection coupled to tandem mass spectrometry (LC-MS/MS). Identification is established by matching the observed protonated molecular ion ($[M+H]^+$) against the theoretical mass for each declared peptide, with retention-time and (where applicable) isotope-pattern cross-checks within the analytical tolerance window.

Sample Preparation: Aliquots of the submitted formulation were diluted in mass-spec-grade solvent, filtered through a 0.22 μ m PTFE membrane, and injected directly onto the analytical column. No derivatization was performed.

Scope & Limitations: This is a qualitative identity determination. The report does not establish active concentration, purity, biological activity, finished-product stability, regulatory cosmetic compliance, or fitness for any particular use. Quantitative assay or potency testing is available as a separate service.



CONFORMANCE STATEMENT

Identity confirmed. The declared peptide active — **GHK-Cu** — was detected in the submitted cosmetic formulation at observed $[M+H]^+$ values matching theoretical mass within the method's analytical tolerance. This certificate attests to qualitative presence only and bears no claim regarding concentration, finished-product stability, or marketing efficacy.

