



ANALYSED BY AN INDEPENDENT UK LABORATORY PARTNER USING ESTABLISHED HPLC & LC-MS METHODS.

00 ASSESSMENT SAMPLE AS RECEIVED

Chromatographic Purity (Area %) of the integrated UV signal. Single integrated peak.
What this means: 99.50% is the reported purity figure for this sample.

Cu chelate confirmed. Under ESI the complex dissociates, so the free-peptide base peak (≈ 340.1 Da) is observed and matches GHK-Cu; the complex reference mass (401.93 Da) is not expected to survive ionisation.

What this means: the free-peptide form of the declared compound was detected by LC-MS — expected for a metal chelate.

⊕ SAMPLE DESCRIPTION & LAB NOTES _____ RECORDED ON RECEIPT

01 HPLC + LC-MS - CO-ELUTION PDA 215 NM · ESI TIC

The chromatogram displays two traces: UV 215 nm (blue line) and MS TIC (green line). The x-axis represents time in minutes, ranging from 2.0 to 4.0. The left y-axis represents UV mAU, ranging from 0k to 2006k. The right y-axis represents MS counts, ranging from 0 to 121M. A peak is labeled 'verified mass · RT 2.51' at approximately 2.51 minutes. The UV trace shows a sharp peak at this retention time, while the MS TIC trace shows a broader peak with a maximum around 2.7 minutes.

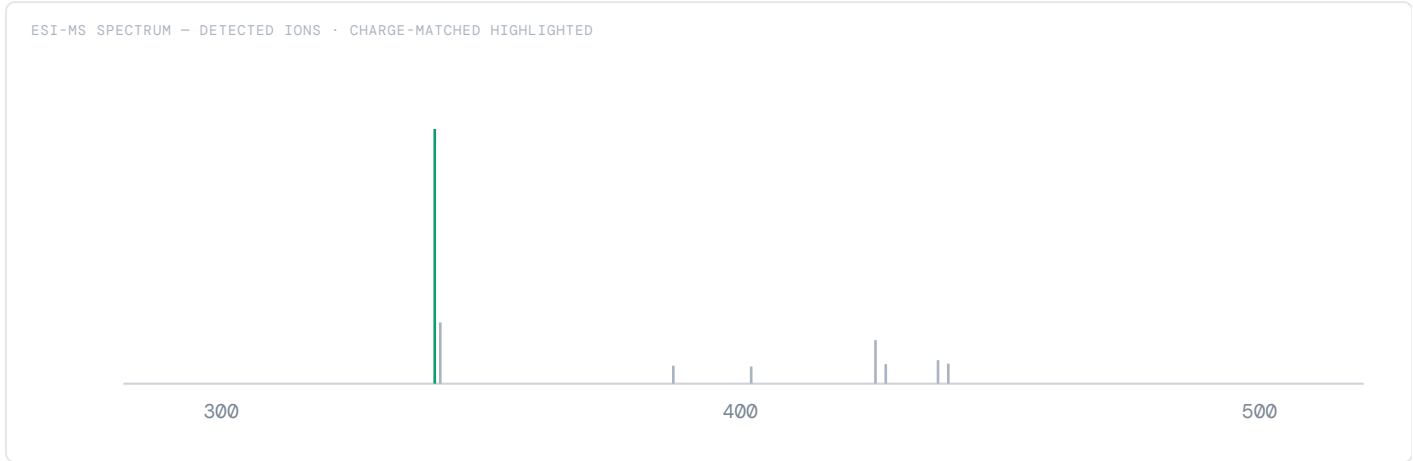
Time (min)	UV 215 nm (mAU)	MS TIC (counts)
2.0	~100k	~0
2.51	~1800k	~60M
2.7	~200k	~100M
3.0	~100k	~10M
4.0	~100k	~0

RPPI % = Peak Purity Index – the reported purity (spectral homogeneity). **Area %** = this peak's share of total UV area, not a purity claim. Tailing = peak symmetry; Plates N = column efficiency.



02 LC-MS – IDENTITY

ESI · INTACT-MASS DECONVOLUTION



Identity: Confirmed (Cu chelate). The free-peptide base peak (≈ 340.1 Da) confirms GHK-Cu. Under electrospray ionisation the Cu complex dissociates, so the intact complex mass (401.93 Da) is not observed — this is the expected behaviour for a metal chelate, not a mismatch.

03 SYSTEM SUITABILITY

PARAMETER	RESULT	LIMIT	OUTCOME
Tailing factor (T) – main peak	1.24	≤ 3.5	PASS
Theoretical plates (N)	640	—	EARLY-ELUTING
Detector / wavelength	PDA	215 nm	PASS

04 VERIFICATION

TAMPER-EVIDENT RECORD

● INDEPENDENTLY VERIFIABLE

peptideverify.co.uk/verify/PV-E8B4E0-ASNN-D8

INTEGRITY SHA-256 · ed51854b...2654bc3e

SOURCE DATA · 20260814 Batch 2_PV-E8B4E0-ASNN-D8_009.lcd

Scan or visit the URL to confirm this certificate against PeptideVerify's source record.

AUTHORISED BY

CHRISTOPHER BRAY · PEPTIDEVERIFY · 17/08/2026

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