Gold Standard Analytics

Gold Standard Analytics LLC, Houston, TX

CERTIFICATE OF ANALYSIS

Report GSA-COA-CUST-LA-GHKCAPS-20261112-5 · issued Nov 18, 2026

LA Peptides

PRODUCT
GHK-Cu capsules

ORDER
Custom sample

SAMPLE
LA-GHKCAPS-20261112

LABEL
GHK-Cu capsule

ISSUED
Nov 18, 2026



THE SAMPLE AS RECEIVED

IDENTITY ✓

GHK-Cu

confirmed by mass

PURITY ✓

100 %

HPLC-UV, 214 nm

FENTANYL SCREEN ✓

Not detected

fentanyl and 15 related compounds

ENDOTOXINS ✓

< 0.050 EU/mL

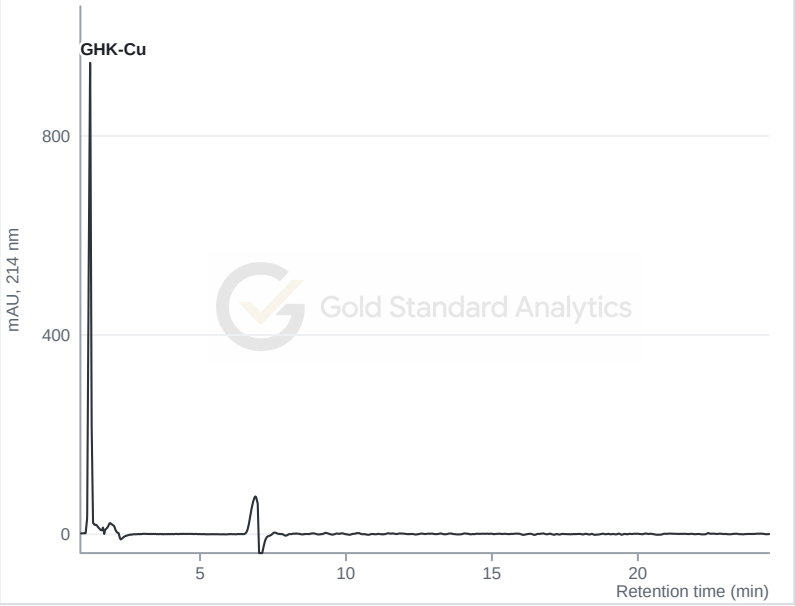
Pass; spike recovery 85 %

✓ **Sterility** Pass; both canisters, 14 days — **No growth**

✓ **Heavy metals** USP <232>, ICP-MS: Pb, Cd, Hg, As, Co, V, Ni — **Pass**

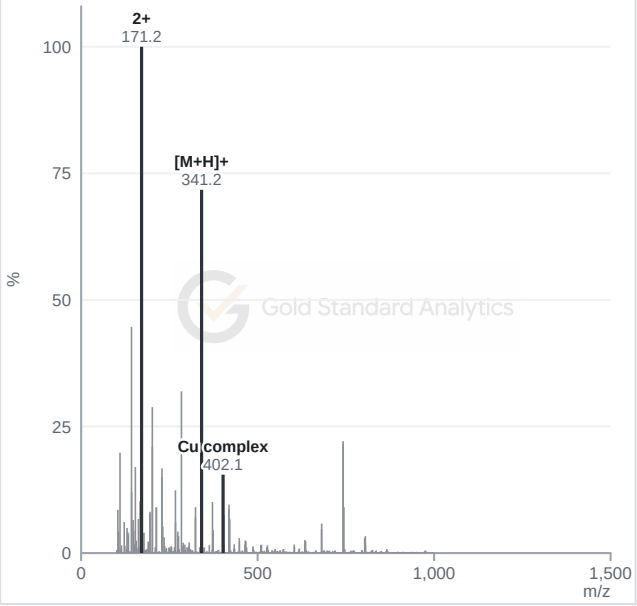
HPLC CHROMATOGRAM

UV, 214 nm



MASS SPECTRUM

main peak (1.23 min)



RELEASED BY

Ian Ebert
Laboratory Director · Nov 19, 2026

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Results are not covered by ISO/IEC 17025 accreditation. Results relate only to the sample as received and tested.

The sample

Custom sample · LA Peptides

Customer	**LA Peptides**	Prepared	**Capsule contents dissolved and filtered to remove the filler, 11 Nov 2026**
Order	**Custom sample**	Tested	**12 Nov 2026**
Sample	**LA-GHKCAPS-20261112**	Tests	**Identity, Purity, Impurity breakdown, Fentanyl screen, Bacterial endotoxins, Sterility, Elemental impurities**
Label	**GHK-Cu capsule**		

Graphs

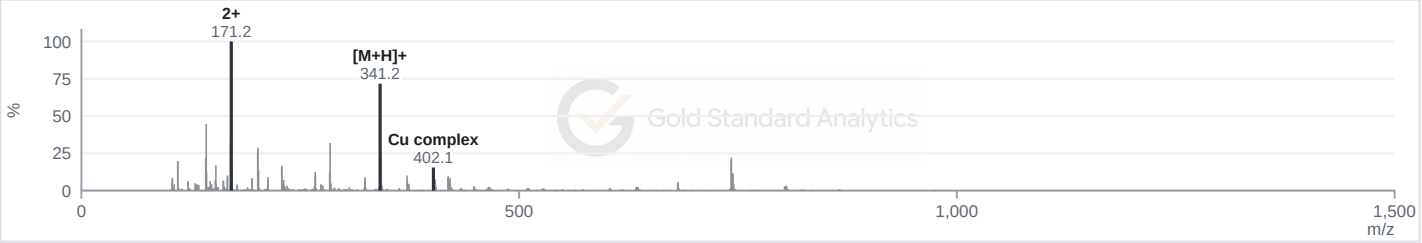
HPLC CHROMATOGRAM

HPLC chromatogram (UV, 214 nm) · mAU, 214 nm against Retention time (min)



MASS SPECTRUM

Mass spectrum of the main peak (1.23 min) · Counts against m/z



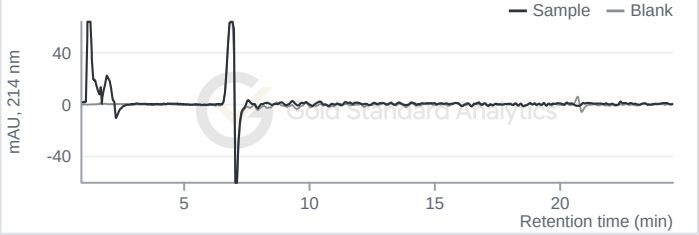
Results

Identity	**Consistent with GHK-Cu.** The main peak at 1.23 min carries GHK's ions (m/z 341.2 [M+H]+ and 171.3 [M+2H]2+; mass 340.4) and its copper complex (m/z 402.1).
Purity	**100 %** by HPLC with UV detection at 214 nm: no other peak was found above the reporting limit (about 0.9 % of the GHK-Cu peak height). The capsule also contains a sugar alcohol such as mannitol and a non-peptide component of mass 198, both seen by mass shortly after GHK-Cu; neither is GHK and neither is counted. The small peak at about 1.9 min appears in every injection, blank solvent included, and is not counted. The large peak at about 6.9 min comes from the instrument: it also appears in blank runs.
Fentanyl screen	**Not detected.** The capsule solution was screened by LC-MS/MS (multiple-reaction monitoring, two ion transitions each) for fentanyl and 15 related compounds: norfentanyl, 4-ANPP, acetylfentanyl, acrylfentanyl, butyrylfentanyl, cyclopropylfentanyl, furanylfentanyl, methoxyacetylfentanyl, para-fluorofentanyl, ocfentanil, carfentanil, sufentanil, alfentanil, remifentanil and valerylfentanyl. This is a screen: no detection limit is stated.
Bacterial endotoxins	**< 0.050 EU/mL; spike recovery 85%** . Pass.
Sterility	**No growth in either canister after 14 days** . Pass.
Elemental impurities (USP <232>)	**Pb < 0.5 µg/g; Cd < 0.2 µg/g; Hg < 0.3 µg/g; As < 1.5 µg/g; Co < 5 µg/g; V < 10 µg/g; Ni < 20 µg/g (Agilent ICP-MS)** . Pass.

Zoomed views

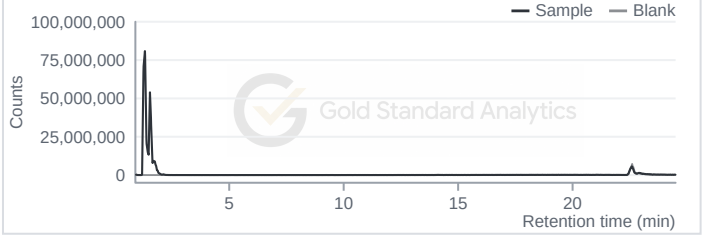
HPLC, SMALL PEAKS

Zoomed in on the small peaks · mAU, 214 nm against Retention time (min)



ION TRACE

Ion trace, m/z 341.2 (GHK [M+H]+): sample vs blank · Counts against Retention time (min)



Impurities

Every UV peak above the reporting limit was GHK-Cu.

Amounts are each peak's share of the total UV peak area at 214 nm.

How it was tested

Liquid chromatography with UV and mass-spectrometry detection: Agilent 1290 Infinity II LC with a 6490 triple-quadrupole mass spectrometer. Column Polaris C18-A, 2.0 x 150 mm, 45 °C; water and acetonitrile, each with 0.1 % formic acid. Purity: UV peak area at 214 nm, after subtracting a blank run in the same sequence. Identity: molecular mass from the mass spectrum. Fentanyl screen: a separate injection with LC-MS/MS in multiple-reaction-monitoring mode. Bacterial endotoxins: endotoxin reader, 0.050 EU/mL limit; result reported as printed by the reader, with spike recovery. Sterility: membrane filtration (canisters), 14-day incubation. Elemental impurities (USP <232>): Agilent ICP-MS; Pb, Cd, Hg, As, Co, V, Ni.

Notes

Results apply only to the sample as received and tested.

Release

This report is signed electronically at release. The signature is printed on page 1, and the release record, added as the last page, gives the date and the verification code.

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Release record

Report GSA-COA-CUST-LA-GHKCAPS-20261112-5 · Certificate GSA-2026-208169

Customer and order	LA Peptides · Custom sample (no order)
Sample and report	LA-GHKCAPS-20261112 · GHK-Cu capsules Certificate of Analysis
Report reference	GSA-COA-CUST-LA-GHKCAPS-20261112-5
Certificate accession	GSA-2026-208169
Released and signed by	Ian Ebert, Laboratory Director
Date and time (UTC)	2026-11-19 20:37:21Z
Signature meaning	Approved for release. The signer reviewed this report and approved its release to its customer.
Approval reference	bef71049-8c58-4edc-a751-35ac41d2d9c1
Electronic signature	Signed electronically in a signed-in GSA staff account.
Original report SHA-256	80b95e99f0347950fff68eaa7c241ef3dab18f51d12936d6763a9856574c4013
Verify this certificate	https://goldstandardanalytics.com/coa/GSA-2026-208169

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Signature

Ian Ebert, Laboratory Director

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