Gold Standard Analytics

Gold Standard Analytics LLC, Houston, TX

CERTIFICATE OF ANALYSIS

Report GSA-COA-CUST-LA-TZPCAPS-20261112 · issued Nov 17, 2026

LA Peptides

PRODUCT
Tirzepatide capsules

ORDER
Custom sample

SAMPLE
LA-TZPCAPS-20261112

LABEL
Tirzepatide capsule

ISSUED
Nov 17, 2026



THE SAMPLE AS RECEIVED

IDENTITY ✓

Tirzepatide

confirmed by mass and retention time

PURITY ✓

100 %

HPLC-UV, 214 nm, 2 injections

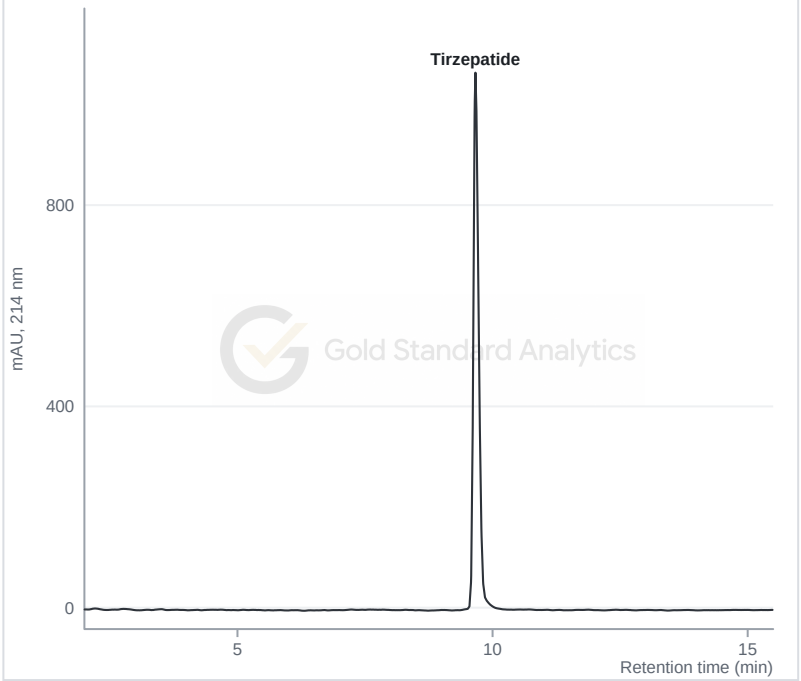
FENTANYL SCREEN ✓

Not detected

fentanyl and 15 related compounds

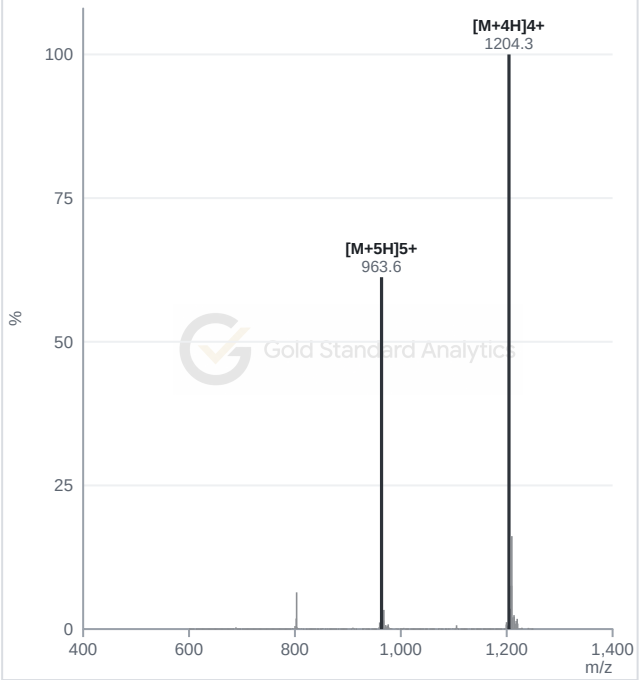
HPLC CHROMATOGRAM

UV, 214 nm



MASS SPECTRUM

main peak (9.66 min)



RELEASED BY

Ian Ebert
Laboratory Director · Nov 17, 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-TZPCAPS-20261112**	Tests	**Identity, Purity, Impurity breakdown, Fentanyl screen**
Label	**Tirzepatide capsule**		

Graphs

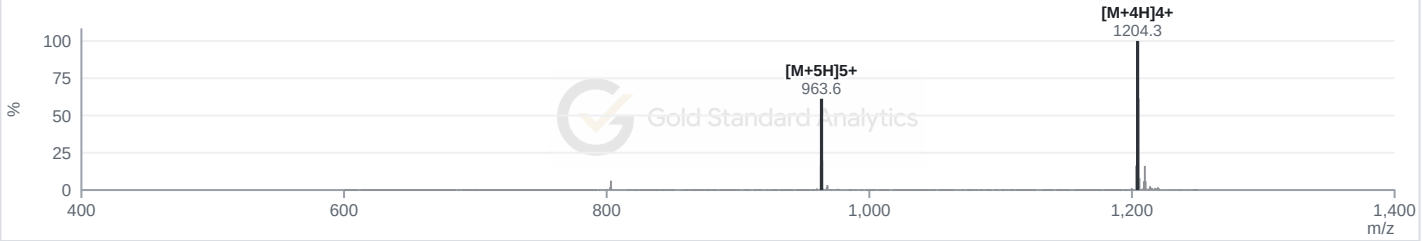
HPLC CHROMATOGRAM

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



MASS SPECTRUM

Mass spectrum of the main peak (9.66 min) · Counts against m/z



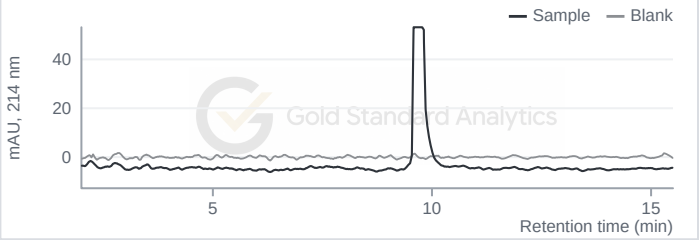
Results

Identity	**Consistent with tirzepatide.** The main peak at 9.66 min carries tirzepatide's 4+ and 5+ ions (m/z 1204.3 and 963.6; molecular mass 4,813.1, expected 4,813.5) and elutes within 0.2 % of a tirzepatide reference standard run in the same sequence (9.68 min).
Purity	**100 %** by HPLC with UV detection at 214 nm, in both of two injections of the same solution: no other peak was found above the reporting limit (about 0.3 % of the tirzepatide peak height).
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.

Zoomed views

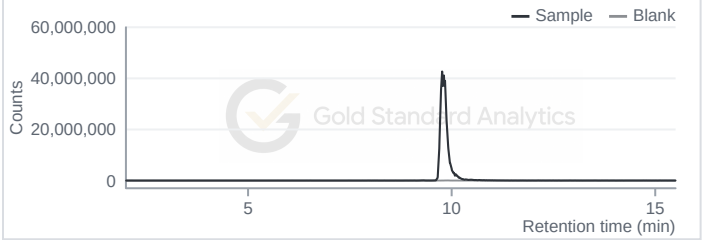
HPLC, SMALL PEAKS

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



ION TRACE

Ion trace, m/z 963.6 (tirzepatide 5+): sample vs blank · Counts against Retention time (min)



Impurities

Every UV peak above the reporting limit was tirzepatide.

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, 55 °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, and retention time against a tirzepatide reference standard run in the same sequence. Fentanyl screen: a separate injection with LC-MS/MS in multiple-reaction-monitoring mode. In the zoomed view, the blank line is the difference between two blank runs with the slow baseline drift removed.

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-TZPCAPS-20261112 · Certificate GSA-2026-646151

Customer and order	LA Peptides · Custom sample (no order)
Sample and report	LA-TZPCAPS-20261112 · Tirzepatide capsules Certificate of Analysis
Report reference	GSA-COA-CUST-LA-TZPCAPS-20261112
Certificate accession	GSA-2026-646151
Released and signed by	Ian Ebert, Laboratory Director
Date and time (UTC)	2026-11-17 19:36:11Z
Signature meaning	Approved for release. The signer reviewed this report and approved its release to its customer.
Approval reference	645b8ef4-9777-47a3-adb9-123f2ca06ae5
Electronic signature	Signed electronically in a signed-in GSA staff account.
Original report SHA-256	2f796c9262f69ef96e5a2ffd49043a60353e7ad6e4f9df488678e8d415154ccb
Verify this certificate	https://goldstandardanalytics.com/coa/GSA-2026-646151

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Signature

Ian Ebert, Laboratory Director

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