Gold Standard Analytics

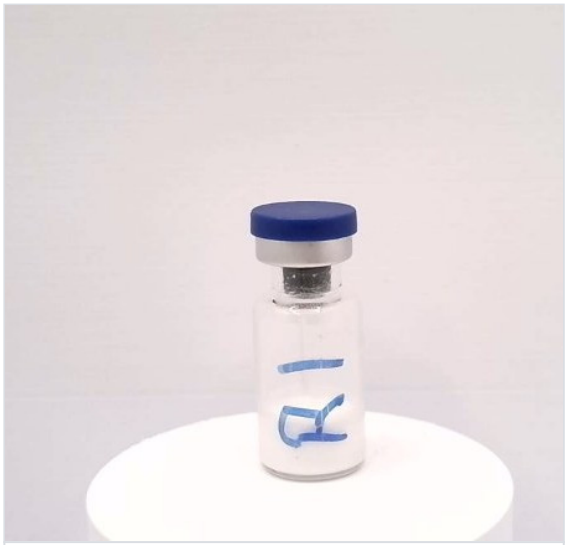
Gold Standard Analytics LLC, Houston, TX

CERTIFICATE OF ANALYSIS

Report GSA-COA-000086-08601-20261124 · issued Nov 24, 2026

Eric Hutson

PRODUCT	ORDER	SAMPLE
Retatrutide (as labelled)	GSA-2026-000086	086-01
LOT	**ISSUED**	
R1	Nov 24, 2026	



THE SAMPLE AS RECEIVED

IDENTITY

Not detected

no retatrutide found

IDENTIFIED AS

Tirzepatide

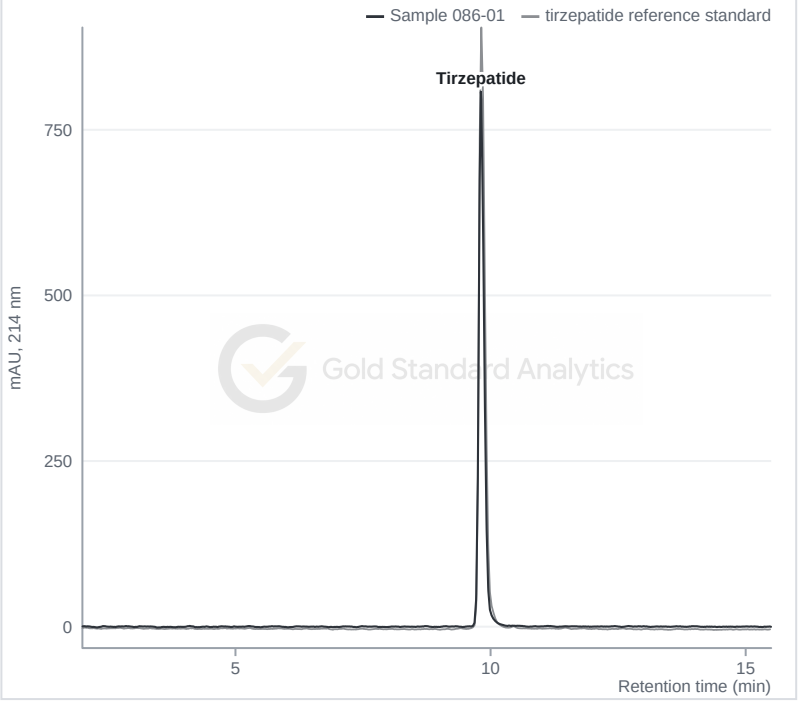
confirmed by mass and retention time

TIRZEPATIDE PURITY

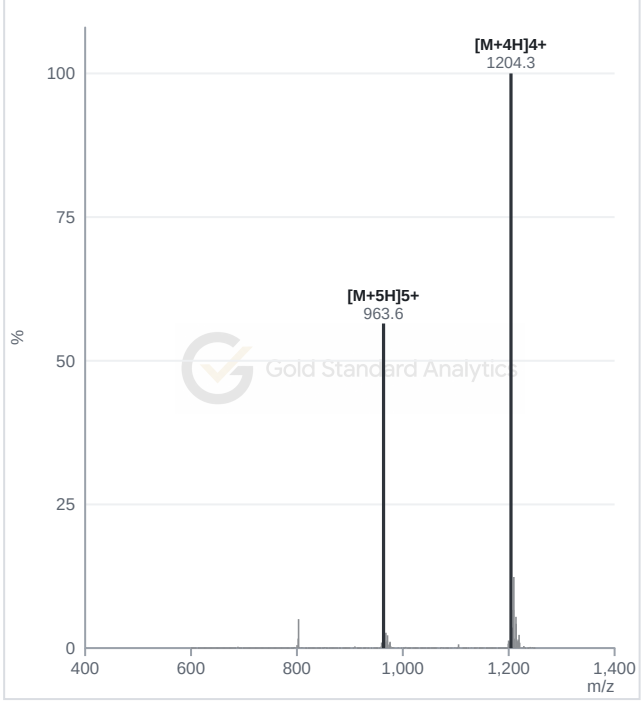
99.74 %

HPLC-UV, 214 nm

HPLC CHROMATOGRAM — UV, 214 nm



MASS SPECTRUM — at the main peak (9.81 min)



RELEASED BY

Ian Ebert
Laboratory Director · Nov 24, 2026

Scan to verify
goldstandardanalytics.com/coa/

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

The sample

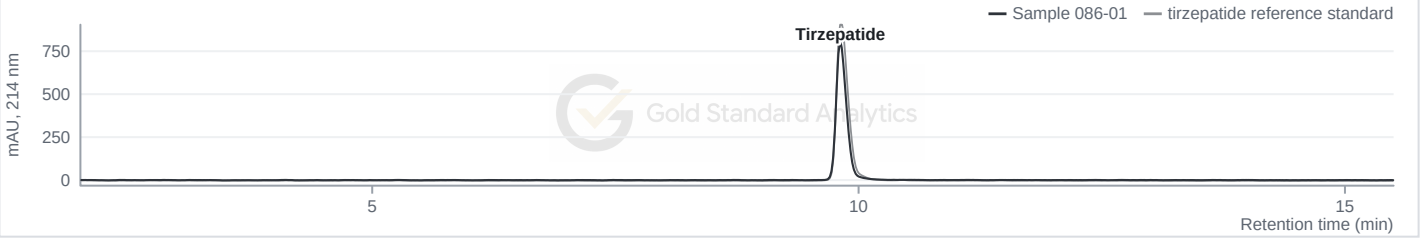
Order GSA-2026-000086 · Sample 086-01 · Eric Hutson

Customer	**Eric Hutson**	Lot	**R1**
Order	**GSA-2026-000086**	Prepared	**23 Nov 2026**
Sample	**086-01**	Tested	**24 Nov 2026**
Label	**No manufacturer label (clear vial, blue cap, hand-written "R1"); declared retatrutide 10 mg**	Tests	**Identity, Purity**

Graphs

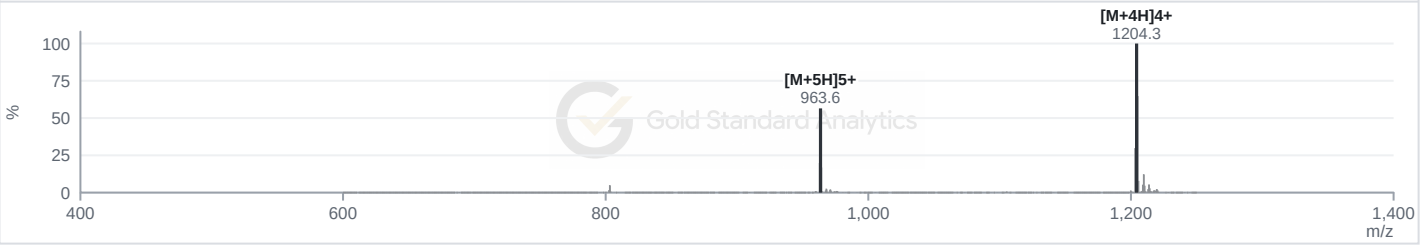
HPLC CHROMATOGRAM

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



MASS SPECTRUM

Mass spectrum at the main peak (9.81 min) · Counts against m/z



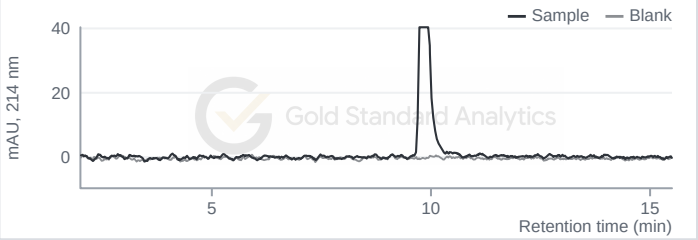
Results

Identity	**Retatrutide not detected.** In two injections of the vial the sample shows no UV peak where retatrutide elutes on this method and none of retatrutide's ions (m/z 1183.8 and 947.2 for its 4+ and 5+ forms) above the level of a blank run in the same sequence.
Identified as	**Tirzepatide.** The main peak at 9.81 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 0.1 % of a tirzepatide reference standard run in the same sequence (9.80 min). A second injection of the same vial gave the same result.
Tirzepatide purity	**99.74 %** by HPLC with UV detection at 214 nm. No peak other than tirzepatide was found, down to about 0.26 % of the tirzepatide peak height, so purity is reported as 99.74 % rather than as 100 %. A second injection of the same vial also showed no other peak.

Zoomed views

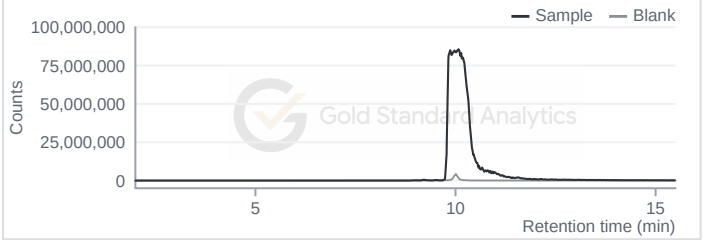
HPLC, SMALL PEAKS

Zoomed in on the small peaks (5 % of the main peak) · mAU, 214 nm against Retention time (min)



ION TRACE

Ion trace, m/z 1204.4 (tirzepatide 4+): sample vs blank · Counts against Retention time (min)



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. Identity: molecular mass from the multiply charged ions in the mass spectrum, and retention time against a tirzepatide reference standard run in the same sequence. Purity: UV peak area at 214 nm, after subtracting a blank run in the same sequence. 2 µL injected, twice; autosampler at 12 °C.

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.

Gold Standard Analytics

goldstandardanalytics.com

Release record

Report GSA-COA-000086-08601-20261124 · Certificate GSA-2026-550592

Customer and order	Eric Hutson · GSA-2026-000086
Sample and report	086-01 · Retatrutide (as labelled) Certificate of Analysis
Report reference	GSA-COA-000086-08601-20261124
Certificate accession	GSA-2026-550592
Released and signed by	Ian Ebert, Laboratory Director
Date and time (UTC)	2026-11-24 20:42:50Z
Signature meaning	Approved for release. The signer reviewed this report and approved its release to its customer.
Approval reference	94fe0d85-c6ce-476e-98bc-acf2249b2b78
Electronic signature	Signed electronically in a signed-in GSA staff account.
Original report SHA-256	b1c50323ad03046d5838befb4b23becff0c15a74e3947c6e5f75b605210033be
Verify this certificate	https://goldstandardanalytics.com/coa/GSA-2026-550592

Scan to view this certificate online

Signature

Ian Ebert, Laboratory Director

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