Gold Standard Analytics

Gold Standard Analytics LLC, Houston, TX

CERTIFICATE OF ANALYSIS

Report GSA-COA-000109-10901-20261126 · issued Nov 26, 2026

Aaron Carmichael

PRODUCT	ORDER	SAMPLE
Retatrutide	GSA-2026-000109	109-01
LOT	**ISSUED**	
RT30	Nov 26, 2026	



THE SAMPLE AS RECEIVED

IDENTITY

Retatrutide

confirmed by mass

PURITY

99.59 %

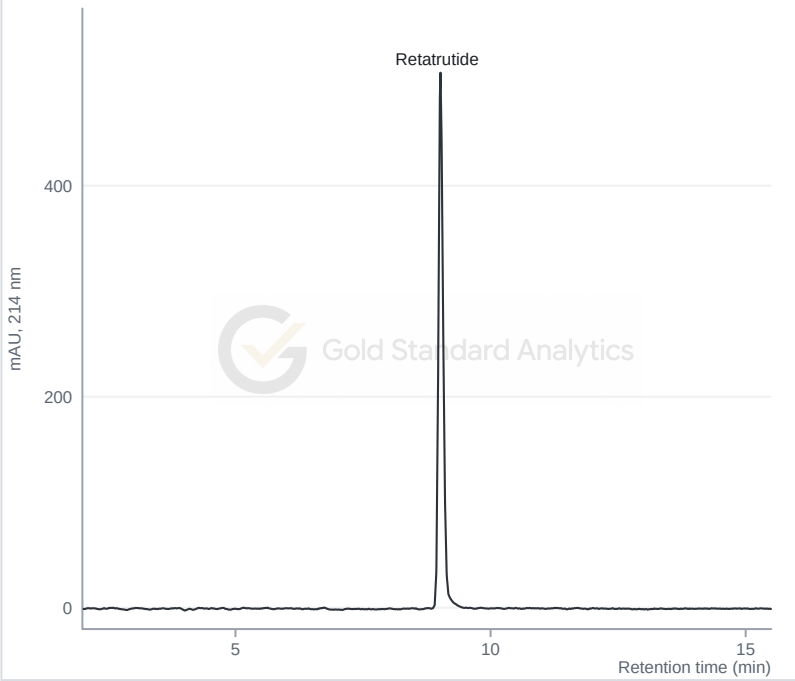
HPLC-UV, 214 nm

NET CONTENT

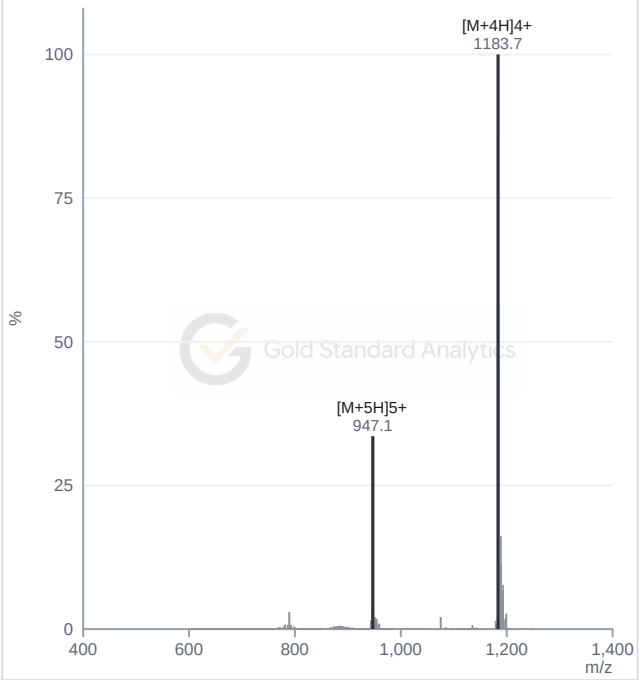
29.4 mg

per vial; 98 % of the declared 30 mg

HPLC CHROMATOGRAM — UV, 214 nm



MASS SPECTRUM — at the retatrutide peak (9.02 min)



RELEASED BY

Ian Ebert

Chemist & Lab Lead · Nov 27, 2026

Scan to verify

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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

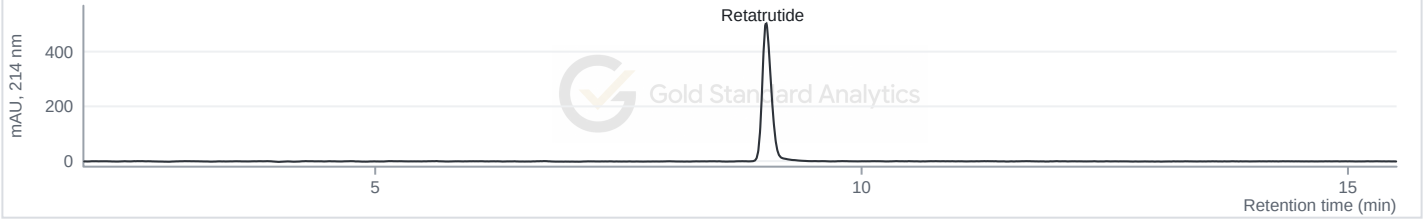
Order GSA-2026-000109 · Sample 109-01 · Aaron Carmichael

Customer	Aaron Carmichael	Lot	RT30
Order	GSA-2026-000109	Prepared	25 Nov 2026
Sample	109-01	Tested	26 Nov 2026
Label	No manufacturer label (clear vial, lilac cap); declared retatrutide 30 mg	Tests	Identity, Purity, Net content

Graphs

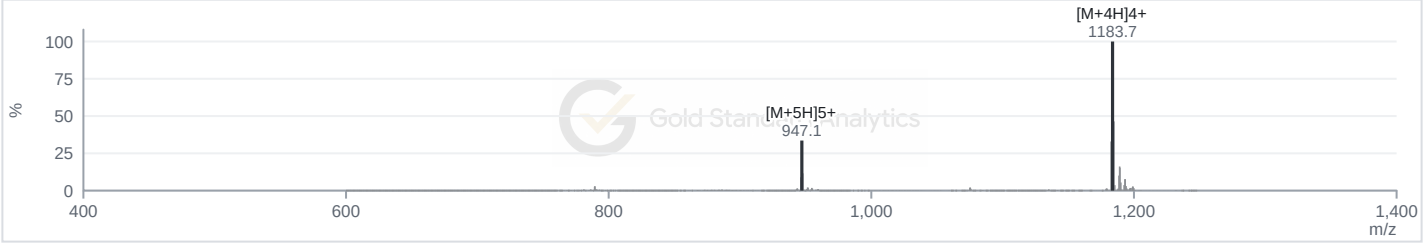
HPLC CHROMATOGRAM

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



MASS SPECTRUM

Mass spectrum at the retatrutide peak (9.02 min) · Counts against m/z



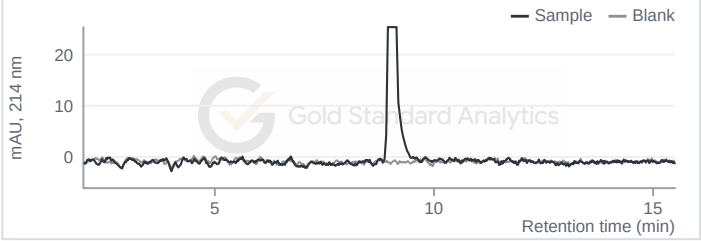
Results

Identity	Consistent with retatrutide. The main peak at 9.02 min carries retatrutide's 4+ and 5+ ions (m/z 1183.7 and 947.1; molecular mass 4,730.6, expected 4,731.3).
Purity	99.59 % by HPLC with UV detection at 214 nm. No peak other than retatrutide was found, down to about 0.41 % of the retatrutide peak height, so purity is reported as 99.59 % rather than as 100 %.
Net content	**29**.4 mg per vial (98 % of the declared 30 mg).

Zoomed views

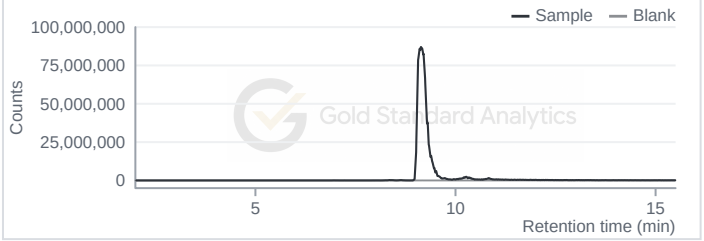
HPLC, SMALL PEAKS

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



ION TRACE

Ion trace, m/z 1183.8 (retatrutide 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. Purity: UV peak area at 214 nm, after subtracting a blank run in the same sequence. 1.2 µL injected; autosampler at 12 °C. Net content: UV absorbance at 280 nm of the retatrutide peak, using the absorptivity calculated from its amino-acid sequence, scaled by the volumes used: the whole vial dissolved in 3.0 mL, and 0.10 mL of that diluted to 1.0 mL; its uncertainty is roughly ±16 %.

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-000109-10901-UPL-90575e2278ec · Certificate GSA-2026-192560

Customer and order	Aaron Carmichael · GSA-2026-000109
Sample and report	109-01 · Certificate of Analysis
Report reference	GSA-COA-000109-10901-UPL-90575e2278ec
Certificate accession	GSA-2026-192560
Released and signed by	Ian Ebert, Chemist & Lab Lead
Date and time (UTC)	2026-11-27 08:22:51Z
Signature meaning	Approved for release. The signer reviewed this report and approved its release to its customer.
Approval reference	14952fcf-7a26-463f-8645-de28670b62be
Electronic signature	Signed electronically in a signed-in GSA staff account.
Original report SHA-256	3d4f418e2454c1e294faab175295f8bc72a6766c3b1740f69ff9c1d44bef67f7
Verify this certificate	https://goldstandardanalytics.com/coa/GSA-2026-192560

Scan to view this certificate online

Signature



Ian Ebert, Chemist & Lab Lead

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