Gold Standard Analytics

Gold Standard Analytics LLC, Houston, TX

CERTIFICATE OF ANALYSIS

Report GSA-COA-000081-08102-20261104 · issued Nov 6, 2026

Mark Miscione

PRODUCT	ORDER	SAMPLE
PT-141	GSA-2026-000081	081-02
LABEL	**LOT**	**ISSUED**
PT-141 10 mg	01SP42001	Nov 6, 2026



THE SAMPLE AS RECEIVED

IDENTITY

Confirmed

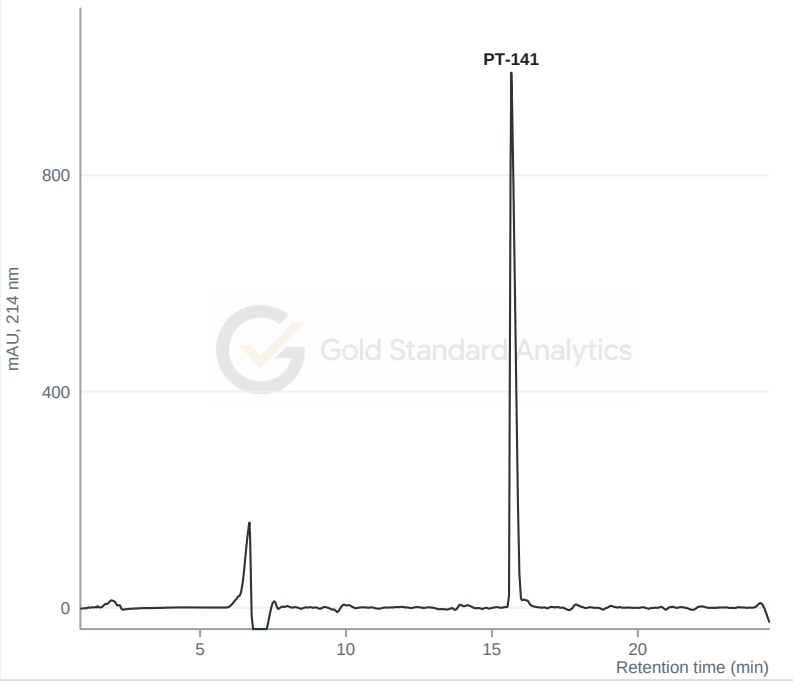
consistent with PT-141

PURITY

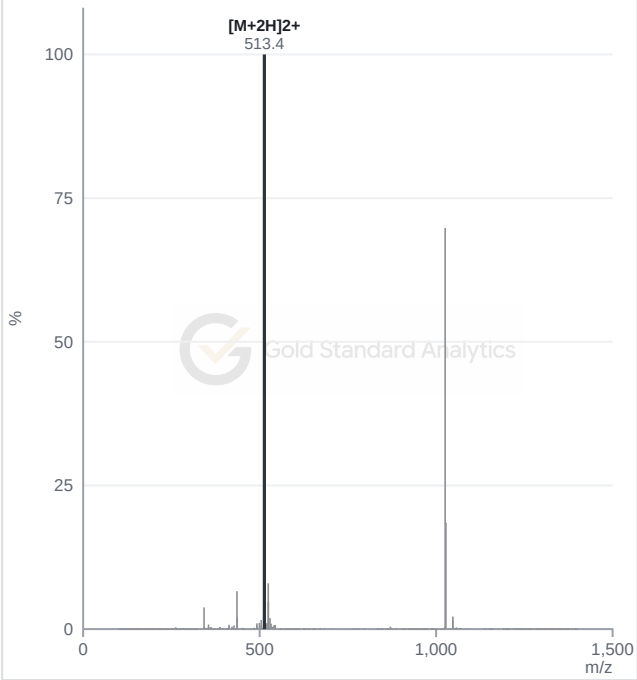
98.4 %

HPLC-UV 214 nm, peptide-related peaks

HPLC CHROMATOGRAM — UV, 214 nm



MASS SPECTRUM — main peak (15.66 min)



RELEASED BY

Ian Ebert

Laboratory Director · Nov 13, 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-2026-000081 · Sample 081-02 · Mark Miscione

Customer	**Mark Miscione**	Lot	**01SP42001**
Order	**GSA-2026-000081**	Prepared	**4 Nov 2026**
Sample	**081-02**	Tested	**04 Nov 2026**
Label	**PT-141 10 mg**	Tests	**Identity, Purity**

Graphs

HPLC CHROMATOGRAM

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



MASS SPECTRUM

Mass spectrum of the main peak (15.66 min) · Counts against m/z



Results

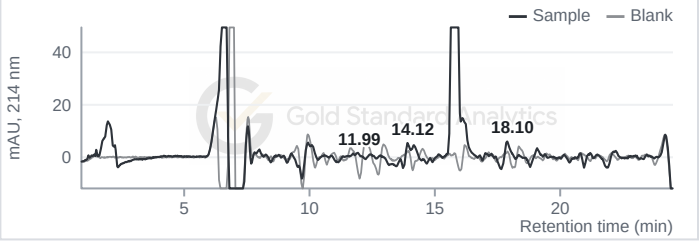
Identity **Consistent with PT-141.** Measured mass 1024.8 (expected 1025.2).

Purity **98.4 %** by HPLC with UV detection at 214 nm: PT-141 as a share of the peptide-related peaks. Every peak was checked by its mass spectrum; peaks that show only instrument background are not counted.

Zoomed views

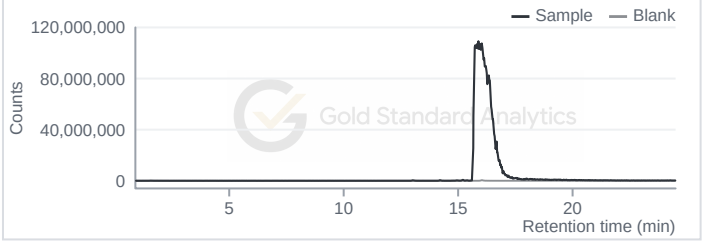
HPLC, SMALL PEAKS

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



ION TRACE

Ion trace, m/z 513.6 ([M+2H]2+): sample vs blank · Counts against Retention time (min)



Impurities

Every peptide-related peak other than PT-141 that was found in the sample:

PEAK (MIN)	AMOUNT	WHAT IT IS
12.76	0.54 %	A closely related form of PT-141; its exact structure is unknown.
14.12	0.88 %	A closely related form of PT-141; its exact structure is unknown.

Trace peaks below 0.10 % add up to 0.22 %. 9 small peaks whose mass spectrum shows only instrument background (2.43 % of the total UV peak area) are not counted. Amounts are shares of the peptide-related 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 of PT-141 as a share of the peptide-related peaks; every peak was checked by its mass spectrum, and peaks that show only instrument background are not counted. Identity: molecular mass from the mass spectrum.

Notes

Results apply only to the sample as received and tested. Purity is a share of the UV peak area, not a weight percentage. Identity is by molecular mass; the amino-acid sequence was not checked.

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.

Customer and order	Mark Miscione · GSA-2026-000081
Sample and report	081-02 · PT-141 Certificate of Analysis
Report reference	GSA-COA-000081-08102-20261104
Certificate accession	GSA-2026-129876
Released and signed by	Ian Ebert, Laboratory Director
Date and time (UTC)	2026-11-13 20:24:17Z
Signature meaning	Approved for release. The signer reviewed this report and approved its release to its customer.
Approval reference	5fae631c-fc3b-48ef-bef5-755b3c0aa0e8
Electronic signature	Signed electronically in a signed-in GSA staff account.
Original report SHA-256	8d2078718bc10a935c195ee9cbbe179b45e0ba3683672b67335808258b148041
Verify this certificate	https://goldstandardanalytics.com/coa/GSA-2026-129876

Scan to view this certificate online

Signature



Ian Ebert, Laboratory Director