REDACTED COA COPY

Supplier identifiers removed; analytical data unchanged.

In-house report; not an independent third-party test.

CERTIFICATE NUMBER
PL-26-00080

LOT / BATCH
PL-2609-080

CERTIFICATE OF ANALYSIS · LOT RELEASE

PT-141 10 mg

Lot **PL-2609-080** · Lyophilized powder · Label claim **10 mg/vial**

IN-HOUSE ANALYTICAL REPORT

In-house analytical result, not an independent third-party test

LOT / BATCH NUMBER	DATE MADE	DATE OF ANALYSIS	DATE ISSUED
PL-2609-080	2026-09-18	2026-09-19	2026-10-03
RETEST / EXPIRY	**UNITS IN LOT / SAMPLED**	**STORAGE**	**CERTIFICATE TYPE**
2028-09-18	250 / 2	−20 °C, desiccated, dark	Lot COA, 2 pages

COMPOUND	CAS NUMBER	MOLECULAR FORMULA	THEORETICAL MASS (AVG.)
PT-141 Bremelanotide	189691-06-3	$C_{50}H_{68}N_{14}O_{10}$	1025.2 Da

SEQUENCE

`Ac-Nle-cyclo[D-H-[D-Phe]-R-W-K]-OH (7 residues; Asp–Lys side-chain lactam; N-acetyl; free C-terminal acid)`

PURITY · RP-HPLC, AREA %
99.42%
Specification 99.0% • main peak at 5.06 min

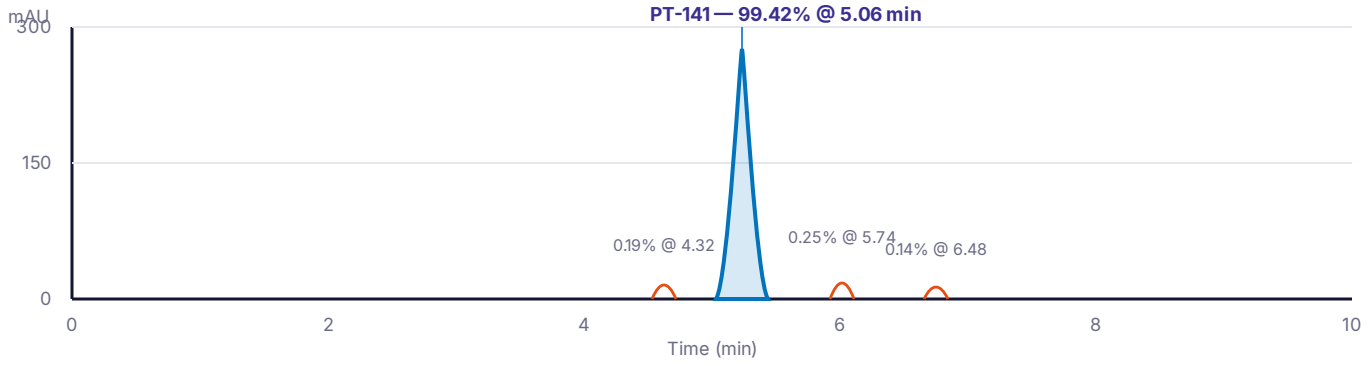
IDENTITY · OBSERVED MASS
1025.4 Da
Theoretical 1025.2 Da • +0.2 Da (195 ppm)

OVERALL CONCLUSION
PASS
Meets every specification for the tests performed

TEST	METHOD	SPECIFICATION	RESULT	CONCLUSION
Appearance	Visual inspection	White to off-white lyophilized powder	White lyophilized powder	**PASS**
Identity (mass)	LC-MS, ESI positive	Theoretical ± 1.0 Da	1025.4 Da	**PASS**
Purity	RP-HPLC, UV 214 nm, area%	99.0%	99.42%	**PASS**
Largest impurity	RP-HPLC, area%	1.0%	0.25% at 5.74 min (ring-opened linear)	**PASS**
Water content	Karl Fischer	5.0%	1.7%	**PASS**
Bacterial endotoxin	LAL, kinetic	≤ 5.0 EU/mg	0.04 EU/mg	**PASS**
Sterility / bioburden	USP <71>, membrane filtration	No growth after 14 days	No growth; conforms	**PASS**

1 HPLC CHROMATOGRAM

Data file: PT1_PL-2609-080_20260919_01 · Column C18 150 × 4.6 mm · UV 214 nm



Baseline uncropped; main peak and impurities labeled with retention times. Peak table on page 2.

For laboratory research use only. Not for human or veterinary use.

2 HPLC METHOD · PT1_PL-2609-080_20260919_01

INSTRUMENT
Waters Alliance e2695, SN E2695B742

DATA SYSTEM
Empower 3, Build 3471

DETECTOR
Waters 2998 PDA

DETECTION WAVELENGTH
214 nm

COLUMN
C18, 150 × 4.6 mm, 3.5 µm

COLUMN PART / SERIAL
186003326 / USHX18211

MOBILE PHASE A
0.1% TFA in water

MOBILE PHASE B
0.1% TFA in MeCN

FLOW RATE
1.0 mL/min

COLUMN TEMPERATURE
30 °C

INJECTION VOLUME
20 µL

RUN TIME
10 min

SAMPLE DILUENT
Water, 0.1% TFA

SAMPLE CONCENTRATION
0.5 mg/mL

BLANK INJECTED
Yes

REFERENCE STANDARD
In-house PT-141 reference, lot PL-RS-PT1-01, RT 5.04 min

3 GRADIENT PROGRAM

TIME (MIN)	% A	% B
0.0	95	5
3.0	95	5
7.0	55	45
8.0	20	80
9.0	20	80
10.0	95	5

4 PEAK TABLE

PEAK	RT (MIN)	AREA	AREA %
1	4.32	8,170	0.19
2	**5.06**	**4,275,060**	**99.42**
3 (ring-opened)	5.74	10,750	0.25
4	6.48	6,020	0.14
Total		4,300,000	100.00

Threshold 0.05% area · Blank subtracted: Y · Purity = main peak area ÷ total integrated area × 100, to two decimals; main peak shaded.

5 IDENTITY BY MASS SPECTROMETRY

INSTRUMENT
Waters Acquity SQD

IONIZATION / MODE
ESI, positive

OBSERVED M/Z (CHARGE)
1026.2 (1+ [M+H]) · 1048.2 (1+ [M+Na])

DECONVOLUTED MASS
1025.4 Da

THEORETICAL MASS
1025.2 Da (free-base cyclic heptapeptide)

DIFFERENCE
+0.2 Da (195 ppm)

DATA FILE
PT1_PL-2609-080_MS_20260919_01

ACCEPTANCE
Within ± 1.0 Da

6 ADDITIONAL TESTS

TEST	PERFORMED BY	DATE	REPORT / FILE
Water content	In-house	2026-09-20	RPT-KF-PL-2609-080
Endotoxin	In-house	2026-09-21	RPT-ET-PL-2609-080
Sterility	In-house	2026-10-02	RPT-ST-PL-2609-080

A test with no row here was not performed on this lot. Outside-laboratory reports, when used, are attached and named below.

7 REVIEW AND APPROVAL

D. Reynolds
Analyst · performed the testing
Date: 2026-09-19

S. Calloway
Reviewer · checked against raw data
Date: 2026-10-02

M. Phelps
Lab Director · approved for release
Date: 2026-10-03

Raw data retained at: Empower 3 (Build 3471), project PL-2609, archive PL-ARC-2026; 7 years. Outside laboratory reports attached: None

Redacted copy: supplier name, logo, address, contact details and verification QR/URL have been removed. This certificate applies only to the named lot and sampled units. Results were obtained by the supplier's in-house laboratory and are not independent third-party testing unless an outside report is attached. Reference values (CAS, formula, theoretical mass, sequence) are literature values. For laboratory research use only; not for human or veterinary use.