CRAFA
PEPTIDE & COMPOUND ANALYSIS

Independent Peptide & Research-Compound Testing
14 Mill Lane, Cambridge, United Kingdom

CERTIFICATE OF ANALYSIS

Certificate of Analysis (COA)

No. CRF-2026-2100
Issued: 2026-10-17

PRODUCT IDENTIFICATION

PRODUCT
PT-141 (Bremelanotide) 10 mg

SKU / INTERNAL CODE
CRF-2026-2100

PRESENTATION
Lyophilised powder, 10 mg vial

BATCH NUMBER
LOT-2610-2100

CLIENT
veltispeptides.mx

SAMPLE RECEIVED
2026-10-12

ANALYSIS DATE
2026-10-15

PRODUCTION DATE
2026-10-10

ISSUED
2026-10-17

EXPIRY / RETEST
2028-10-17

MOLECULAR FORMULA
C50H68N14O10

MOLECULAR WEIGHT
1025.2

CAS NUMBER
189691-06-3

ANALYTICAL METHOD

PANEL
SILVER - HPLC-UV + LC-MS/MS + ICP-MS (Pb/As/Cd/Hg) + LAL endotoxin

METHOD
RP-HPLC-UV 214 nm · LC-MS/MS ESI Q-TOF · ICP-MS · LAL kinetic chromogenic (USP <85>)

INSTRUMENT
Thermo Q-Exactive · Agilent 7900 ICP-MS · Charles River Endosafe nexgen-PTS

Column: C18 4.6×150mm | Temperature: 35°C | Mobile phase: 0.1% TFA H2O / ACN | Flow: 1.0 mL/min | Retention time: 8.5 min

RESEARCH USE ONLY - NOT FOR HUMAN OR VETERINARY USE

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1. PURITY & ASSAY - RP-HPLC-UV (214 nm)

Test	Specification	Result	Status
HPLC Purity	≥98.0%	99.5%	PASS
Quantity	95.0-105.0%	10.1 mg (101.0%)	PASS

2. LC-MS/MS STRUCTURAL CONFIRMATION

Test	Reported data	Status
Theoretical [M+H]+	1026.2 | Observed: 1026.5 | Δ +0.30 Da	PASS
Sequence Coverage (MS/MS)	≥95% | 100% (Ac-Nle-cyclo[Asp-His-D-Phe-Arg-Trp-Lys]-OH)	PASS
Key fragments	b3 429.2 · b5 700.4 · y4 512.3 · y6 810.5	PASS
Modifications	N-acetyl (+42.01 Da on b1) confirmed; cyclic lactam bridge Asp2-Lys7 confirmed by -18.01 Da vs linear precursor; D-Phe4 confirmed by chiral retention shift	PASS

3. HEAVY METALS - ICP-MS (USP <232>/<233>)

Test	Specification	Result	Status
Pb	≤5.0 µg/g	<0.05 µg/g	PASS
As	≤15.0 µg/g	<0.10 µg/g	PASS
Cd	≤2.0 µg/g	<0.02 µg/g	PASS
Hg	≤3.0 µg/g	<0.01 µg/g	PASS

4. ENDOTOXIN - LAL kinetic chromogenic (USP <85>)

Test	Reported data	Status
Result	<1.0 EU/mg limit | 0.27 EU/mg | PPC recovery 83%	PASS

FINAL BATCH RESULT

PASS - Conforms to specifications

ANALYST NOTES

Cyclic heptapeptide melanocortin agonist. Ring closure and D-Phe confirmed by MS/MS. No ring-opened impurity above 0.3%.

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