CRAFA
PEPTIDE & COMPOUND ANALYSIS

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

CERTIFICATE OF ANALYSIS

Certificate of Analysis (COA)

No. CRF-2026-2085
Issued: 2026-10-16

PRODUCT IDENTIFICATION

PRODUCT	Melanotan I 10 mg
SKU / INTERNAL CODE	CRF-2026-2085
PRESENTATION	Lyophilised powder, 10 mg vial
BATCH NUMBER	LOT-2610-2085

CLIENT	SAMPLE RECEIVED	ANALYSIS DATE
veltispeptides.mx	2026-10-11	2026-10-14

PRODUCTION DATE	ISSUED	EXPIRY / RETEST
2026-10-09	2026-10-16	2028-10-16

MOLECULAR FORMULA
C78H111N21O19

MOLECULAR WEIGHT	CAS NUMBER
1646.85	75921-69-6

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: 40°C | Mobile phase: 0.1% TFA H2O / ACN | Flow: 1.0 mL/min | Retention time: 9.8 min

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

Test	Specification	Result	Status
HPLC Purity	≥98.0%	99.4%	PASS
Quantity	95.0-105.0%	10.0 mg (100.0%)	PASS

2. LC-MS/MS STRUCTURAL CONFIRMATION

Test	Reported data	Status
Theoretical [M+H]+	1647.8	Observed: 1648.1	Δ +0.30 Da	PASS
Sequence Coverage (MS/MS)	≥95%	100% (13 aa)	PASS
Key fragments	b5 638.3 · b9 1166.5 · y5 573.3 · y9 1071.5	PASS
Modifications	N-terminal acetyl (Ac-Ser-Tyr-Ser-Met-Glu-His-Phe-Arg-Trp-Gly-Lys-Pro-Val-NH2) confirmed; C-terminal Val-NH2 confirmed; Met sulfoxide <0.6%	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 | 0.26 EU/mg | PPC recovery 84%	PASS

FINAL BATCH RESULT

PASS - Conforms to specifications

ANALYST NOTES

α-MSH analogue (afamelanotide scaffold), linear 13-aa. No aggregation; acetate 6.8% w/w. Distinguished from MT-II by absence of lactam ring (mass +622 Da vs cyclic).

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