CRAFA
PEPTIDE & COMPOUND ANALYSIS

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

CERTIFICATE OF ANALYSIS

Certificate of Analysis (COA)

No. CRF-2026-2086
Issued: 2026-10-16

PRODUCT IDENTIFICATION

PRODUCT	Melanotan II 10 mg
SKU / INTERNAL CODE	CRF-2026-2086
PRESENTATION	Lyophilised powder, 10 mg vial
BATCH NUMBER	LOT-2610-2086

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
C50H69N15O9

MOLECULAR WEIGHT	CAS NUMBER
1024.2	121062-08-6

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
Agilent 1290 · 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: 8.2 min

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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%	9.98 mg (99.8%)	PASS

2. LC-MS/MS STRUCTURAL CONFIRMATION

Test	Reported data	Status
Theoretical [M+H]+	1025.2 | Observed: 1025.4 | Δ +0.20 Da	PASS
Sequence Coverage (MS/MS)	≥95% | 100% (Ac-Nle-cyclo[Asp-His-D-Phe-Arg-Trp-Lys]-NH2)	PASS
Key fragments	b3 429.2 · b5 700.4 · y4 512.3 · y6 810.5	PASS
Modifications	cyclic lactam bridge Asp2-Lys7 confirmed by -18.01 Da vs linear precursor; D-Phe4 confirmed by chiral retention shift; C-terminal amide confirmed	PASS

RESEARCH USE ONLY - NOT FOR HUMAN OR VETERINARY USE

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 | 0.24 EU/mg | PPC recovery 87%	PASS

FINAL BATCH RESULT

PASS - Conforms to specifications

ANALYST NOTES

Cyclic heptapeptide melanocortin agonist. Ring closure confirmed by mass loss of H2O vs. linear precursor. No ring-opened impurity above 0.3%.

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