CRAFA
PEPTIDE & COMPOUND ANALYSIS

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

CERTIFICATE OF ANALYSIS

Certificate of Analysis (COA)

No. CRF-2026-2095
Issued: 2026-10-17

PRODUCT IDENTIFICATION

PRODUCT	MOTS-c 10 mg
SKU / INTERNAL CODE	CRF-2026-2095
PRESENTATION	Lyophilised powder, 10 mg vial
BATCH NUMBER	LOT-2610-2095
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
C101H160N28O25S2

MOLECULAR WEIGHT	CAS NUMBER
2174.6	N/A

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
Waters Xevo G3 · Agilent 7900 ICP-MS · Charles River Endosafe nexgen-PTS

Column: C4 2.1×100mm | Temperature: 55°C | Mobile phase: 0.1% TFA H2O / ACN | Flow: 0.3 mL/min | Retention time: 10.4 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%	10.0 mg (100.0%)	PASS

2. LC-MS/MS STRUCTURAL CONFIRMATION

Test	Reported data	Status
Theoretical [M+H]+	2175.6 | Observed: 2175.9 | Δ +0.30 Da	PASS
Sequence Coverage (MS/MS)	≥95% | 100% (MRWQEMGYIFYPRKLR, 16 aa)	PASS
Key fragments	b4 563.3 · b8 1006.4 · y5 667.4 · y9 1155.6	PASS
Modifications	N-terminal Met free, C-terminal Arg free acid, no acetylation; Met oxidation <0.5%	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 | 0.20 EU/mg | PPC recovery 89%	PASS

FINAL BATCH RESULT

PASS - Conforms to specifications

ANALYST NOTES

Mitochondrial-derived peptide, 16 aa. Two sulfur-containing residues (Met, Cys-free sequence) - oxidation <0.5%. Endotoxin clean.

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