CRAFA
PEPTIDE & COMPOUND ANALYSIS

CERTIFICATE OF ANALYSIS

Certificate of Analysis (COA)

No. CRF-2026-0231
Issued: 2026-09-17

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

PRODUCT IDENTIFICATION

PRODUCT MOTS-c 10 mg	SKU / INTERNAL CODE CRF-2026-0231	PRESENTATION Lyophilised powder, 10 mg vial
BATCH NUMBER CRF-2026-0231	SAMPLE RECEIVED 2026-09-10	PRODUCTION DATE 2026-09-05
ANALYSIS DATE 2026-09-15	EXPIRY / RETEST DATE 2028-09-15	MOLECULAR FORMULA (REFERENCE) C101H152N28O22S2
MOLECULAR WEIGHT (G/MOL; REFERENCE) 2174.6	CAS (REFERENCE) 1627580-64-6	

Research Use Only (RUO). Not for human or veterinary use, consumption, or clinical diagnosis.

ANALYTICAL METHOD — HPLC

INSTRUMENT Waters ACQUITY	COLUMN C18 2.1×100mm	COLUMN TEMPERATURE 40°C
MOBILE PHASE A 0.1% TFA H2O	MOBILE PHASE B ACN	FLOW RATE 0.4 mL/min
DETECTION WAVELENGTH 214 nm	INJECTION VOLUME 5 µL	SAMPLE CONCENTRATION 1.0 mg/mL
DILUENT —	RETENTION TIME (MAIN PEAK) 8.2 min	

Recorded methods: HPLC-UV (214 nm) · LC-MS/MS · LAL · ICP-MS

RESULTS

Test	Acceptance Criteria	Result	Verdict
HPLC Purity (% area)	≥98.0%	99.3%	PASS
Identity (LC-MS)	2175.6 ±2%	Obs: 2175.9 [M+H]+	PASS
Quantity found	95.0–105.0%	10.05 mg (100.5%)	PASS
Endotoxin	<1.0 EU/mg	<0.5 EU/mg	PASS
Heavy metals	<10 ppm	All <LOQ	PASS

Detected Impurities

No impurity data recorded.

FINAL BATCH RESULT

PASS — Conforms to specifications

No chromatogram data recorded.

Analyst notes: 16-amino acid sequence confirmed, high aqueous solubility.

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