CRAFA
PEPTIDE & COMPOUND ANALYSIS

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

CERTIFICATE OF ANALYSIS

Certificate of Analysis (COA)

No. CRF-2026-0243
Issued: 2026-09-28

PRODUCT IDENTIFICATION

PRODUCT KPV 10 mg	SKU / INTERNAL CODE CRF-2026-0243	PRESENTATION Lyophilised powder, 10 mg vial
BATCH NUMBER CRF-2026-0243	SAMPLE RECEIVED 2026-09-21	PRODUCTION DATE 2026-09-15
ANALYSIS DATE 2026-09-26	EXPIRY / RETEST DATE 2028-09-26	MOLECULAR FORMULA (REFERENCE) C16H30N4O4
MOLECULAR WEIGHT (G/MOL; REFERENCE) 342.43	CAS (REFERENCE) 67727-97-3	

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

ANALYTICAL METHOD — HPLC

INSTRUMENT	COLUMN	COLUMN TEMPERATURE
—	—	— °C
MOBILE PHASE A	MOBILE PHASE B	FLOW RATE
—	—	— mL/min
DETECTION WAVELENGTH	INJECTION VOLUME	SAMPLE CONCENTRATION
214 nm	— µL	— mg/mL
DILUENT	RETENTION TIME (MAIN PEAK)	
—	— min	

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

RESULTS

Test	Acceptance Criteria	Result	Verdict
HPLC Purity (% area)	≥98.0%	99.5%	PASS
Identity (Method not recorded)	342.4 ±2%	Obs: 366.4 [M+H]+	NOT RECORDED
Quantity found	95.0–105.0%	10.03 mg (100.3%)	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

NOT RECORDED — Batch disposition pending

No chromatogram data recorded.

Analyst notes: Tripeptide alpha-MSH fragment verified, high stability.

released for analytical and preclinical research applications. Source template footer: This certificate is valid only for the referenced lot and sample condition. Store lyophilised material at 2–8°C, protected from light and moisture. Reconstitute only with bacteriostatic or sterile water using gentle swirling.

ANALYTICAL METHOD

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
RETENTION TIME (MAIN PEAK) 4.8 min		



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