CRAFA
PEPTIDE & COMPOUND ANALYSIS

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

# CERTIFICATE OF ANALYSIS

Certificate of Analysis (COA)

No. CRF-2026-0195
Issued: 2026-09-01

## PRODUCT IDENTIFICATION

| | | |
|---|---|---|
| PRODUCT<br>KPV 10mg | SKU / INTERNAL CODE<br>CRF-2026-0195 | PRESENTATION<br>Lyophilised powder, 10mg vial |
| BATCH NUMBER<br>CRF-2026-0195 | SAMPLE RECEIVED<br>2026-08-25 | PRODUCTION DATE<br>2026-08-20 |
| ANALYSIS DATE<br>2026-08-30 | EXPIRY / RETEST DATE<br>2028-08-30 | MOLECULAR FORMULA<br>C16H30N4O4 |
| MOLECULAR WEIGHT (G/MOL)<br>342.43 | CAS<br>67727-97-3 | |

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

## ANALYTICAL METHOD — HPLC

| | | |
|---|---|---|
| INSTRUMENT<br>Agilent 1290 | COLUMN<br>C18 4.6×150mm | COLUMN TEMPERATURE<br>35°C |
| MOBILE PHASE A<br>0.1% TFA H2O | MOBILE PHASE B<br>ACN | FLOW RATE<br>1.0 mL/min |
| DETECTION WAVELENGTH<br>214 nm | INJECTION VOLUME<br>10 µL | SAMPLE CONCENTRATION<br>1.0 mg/mL |
| DILUENT<br>— | RETENTION TIME (MAIN PEAK)<br>4.8 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) | 343.4 ±2% | Obs: 343.7 [M+H]+ | PASS |

Verify document: VEL-dd2a16b56f8c7760 · crafalab.com/verify
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Applies only to batch CRF-2026-0195. Certificate CRF-2026-0195.
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| Test | Acceptance Criteria | Result | Verdict |
|---|---|---|---|
| Quantity found | 95.0–105.0% | 9.92 mg (99.2%) | PASS |
| Endotoxin | <1.0 EU/mg | <0.25 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: Category: Specialty. Sample conforms to label claim and Gold panel acceptance criteria.

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