CRAFA
PEPTIDE & COMPOUND ANALYSIS

CERTIFICATE OF ANALYSIS

Certificate of Analysis (COA)

No. CRF-2026-0119
Issued: 2026-09-01

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

PRODUCT IDENTIFICATION

PRODUCT Tirzepatide	SKU / INTERNAL CODE CRF-2026-0119	PRESENTATION Lyophilised powder, 10 mg vial
BATCH NUMBER CRF-2026-0119	SAMPLE RECEIVED 2026-08-24	PRODUCTION DATE 2026-08-20
ANALYSIS DATE 2026-08-29	EXPIRY / RETEST DATE 2028-08-29	MOLECULAR FORMULA (REFERENCE) C225H348N48O68
MOLECULAR WEIGHT (G/MOL; REFERENCE) 4813.53	CAS (REFERENCE) 2023788-19-2	

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

ANALYTICAL METHOD — HPLC

INSTRUMENT Waters Xevo G3	COLUMN C4 2.1×100mm	COLUMN TEMPERATURE 60°C
MOBILE PHASE A 0.1% TFA H2O	MOBILE PHASE B 0.1% TFA ACN	FLOW RATE 0.3 mL/min
DETECTION WAVELENGTH 214 nm	INJECTION VOLUME 5 µL	SAMPLE CONCENTRATION 0.5 mg/mL
DILUENT —	RETENTION TIME (MAIN PEAK) 13.4 min	

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

RESULTS

Test	Acceptance Criteria	Result	Verdict
HPLC Purity (% area)	≥98.0%	99.8%	PASS
Identity (LC-MS)	4814.5 ±2%	Obs: 4813.49 [M+H]+	PASS
Quantity found	95.0–105.0%	9.94 mg (99.4%)	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: Full Elite panel passed. Sample identical to reference standard within mass accuracy of 2 ppm.

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