CRAFA
PEPTIDE & COMPOUND ANALYSIS

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

CERTIFICATE OF ANALYSIS

Certificate of Analysis (COA)

No. CRF-2026-0239
Issued: 2026-09-24

PRODUCT IDENTIFICATION

PRODUCT Thymosin Alpha-1 10 mg	SKU / INTERNAL CODE CRF-2026-0239	PRESENTATION Lyophilised powder, 10 mg vial
BATCH NUMBER CRF-2026-0239	SAMPLE RECEIVED 2026-09-17	PRODUCTION DATE 2026-09-11
ANALYSIS DATE 2026-09-22	EXPIRY / RETEST DATE 2028-09-22	MOLECULAR FORMULA (REFERENCE) C129H215N33O55
MOLECULAR WEIGHT (G/MOL; REFERENCE) 3108.3	CAS (REFERENCE) 62304-98-7	

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 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) 10.5 min	

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

RESULTS

Test	Acceptance Criteria	Result	Verdict
HPLC Purity (% area)	≥98.0%	99.7%	PASS
Identity (Method not recorded)	3108.3 ±2%	Obs: 3109.0 [M+H]+	PASS
Quantity found	95.0–105.0%	10.09 mg (100.9%)	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: 28-amino acid sequence confirmed, endotoxin <0.1 EU/mg.

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