CRAFA
PEPTIDE & COMPOUND ANALYSIS

CERTIFICATE OF ANALYSIS

Certificate of Analysis (COA)

No. CRF-2026-1084
Issued: 2026-10-05

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

PRODUCT IDENTIFICATION

PRODUCT HGH 191aa 36 IU	SKU / INTERNAL CODE CRF-HGH191AA36IU	PRESENTATION Lyophilised powder, 36 IU vial
BATCH NUMBER LOT-2610-084	SAMPLE RECEIVED 2026-09-28	PRODUCTION DATE 2026-09-25
ANALYSIS DATE 2026-10-03	EXPIRY / RETEST DATE 2028-10-03	MOLECULAR FORMULA (REFERENCE) C990H1528N262O300S7
MOLECULAR WEIGHT (G/MOL; REFERENCE) 22124	CAS (REFERENCE) 12629-01-5	

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

ANALYTICAL METHOD — HPLC

INSTRUMENT Thermo Q-Exactive	COLUMN C4 4.6×150mm	COLUMN TEMPERATURE 40°C
MOBILE PHASE A 0.1% TFA H2O	MOBILE PHASE B ACN	FLOW RATE 0.8 mL/min
DETECTION WAVELENGTH 214 nm	INJECTION VOLUME 10 µL	SAMPLE CONCENTRATION 1.0 mg/mL
DILUENT —	RETENTION TIME (MAIN PEAK) 10.5 min	

Recorded methods: SDS-PAGE · RP-HPLC · LC-MS (intact mass) · LAL · Bioassay

RESULTS

Test	Acceptance Criteria	Result	Verdict
HPLC Purity (% area)	≥98.0%	99.8%	PASS
Identity (LC-MS)	22124 ±0.1%	Obs: 22126.0 Da intact	PASS
Quantity found	95.0–105.0%	36.0 IU (100.0%)	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: 191-aa isoform verified, endotoxin compliant, high solubility.

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