CRAFA
PEPTIDE & COMPOUND ANALYSIS

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

CERTIFICATE OF ANALYSIS

Certificate of Analysis (COA)

No. CRF-2026-0245
Issued: 2026-09-30

PRODUCT IDENTIFICATION

PRODUCT Vitamina B12 10 mg/mL	SKU / INTERNAL CODE CRF-2026-0245	PRESENTATION Liquid solution, 10 mL vial
BATCH NUMBER CRF-2026-0245	SAMPLE RECEIVED 2026-09-23	PRODUCTION DATE 2026-09-17
ANALYSIS DATE 2026-09-28	EXPIRY / RETEST DATE 2028-09-28	MOLECULAR FORMULA (REFERENCE) C63H88CoN14O14P
MOLECULAR WEIGHT (G/MOL; REFERENCE) 1355.4	CAS (REFERENCE) 68-19-9	

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

ANALYTICAL METHOD — HPLC

INSTRUMENT Shimadzu LC-20AD	COLUMN C18 4.6×150mm	COLUMN TEMPERATURE 30°C
MOBILE PHASE A 0.1% Formic Acid	MOBILE PHASE B MeOH	FLOW RATE 1.0 mL/min
DETECTION WAVELENGTH 214 nm	INJECTION VOLUME 10 µL	SAMPLE CONCENTRATION 1.0 mg/mL
DILUENT —	RETENTION TIME (MAIN PEAK) 6.4 min	

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

RESULTS

Test	Acceptance Criteria	Result	Verdict
HPLC Purity (% area)	≥98.0%	99.9%	PASS
Identity (Method not recorded)	1355.4 ±2%	Obs: 1356.4 [M+H]+	PASS
Quantity found	95.0–105.0%	10.0 mg/mL (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: Cyanocobalamin form, stable pH 6.5, sterile filtered.

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