eira london

CERTIFICATE OF ANALYSIS
BATCH RELEASE DOCUMENT

CERTIFICATE OF ANALYSIS / BATCH RELEASE & IDENTITY VERIFICATION

KPV 10mg

Lys–Pro–Val synthetic tripeptide **(KPV)** · sterile-filled lyophilised powder, released against independent third-party HPLC, LC–MS and bacterial-endotoxin analysis.

PRODUCT	LOT · BATCH	TESTING LABORATORY	REPORT DATE
KPV 10mg Lyophilised powder	PH-kv101123 Single production lot	Independent Third-party laboratory	20 April 2026

HPLC–UV PURITY

99.74%

Mean of two vials · 99.74% / 99.73%

● MEETS RELEASE SPEC

IDENTITY LC–MS confirmation	**KPV** Confirmed
NET PEPTIDE CONTENT Mean of two vials	**11.34 mg** ≥ 10mg
BACTERIAL ENDOTOXIN LAL · USP <85>	**Pass** ≤0.05 EU/mL

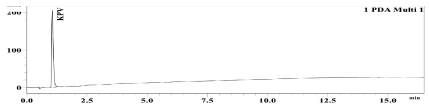
01 PURITY · IDENTITY · CONTENT · ENDOTOXIN — Analytical Results

TEST	METHOD	RESULT	RELEASE SPECIFICATION	STATUS
Identity Peptide confirmation	LC–MS	**KPV · $[M+H]^+$ m/z 343.2**	Conforms to reference mass	PASS
Chromatographic Purity Main peak, area %	HPLC–UV	**99.74%** Vial 1 · 99.74% | Vial 2 · 99.73%	≥ 98.0%	PASS
Net Peptide Content Mean of two vials	Gravimetric	**11.34 mg** Vial 1 · 11.40 mg | Vial 2 · 11.28 mg	≥ 10.0 mg (label claim)	PASS
Bacterial Endotoxin Replicate 1 & 2	LAL · USP <85>	**Pass / Pass** Assay sensitivity ≤ 0.05 EU/mL	≤ 0.05 EU/mL	PASS
Appearance Visual inspection	Visual	**White lyophilised powder** Sterile-filled, sealed vial	White cake / powder	PASS

Methods. Purity by high-performance liquid chromatography with UV detection (HPLC–UV); identity by liquid chromatography–mass spectrometry (LC–MS). Bacterial endotoxin by Limulus Amebocyte Lysate (LAL) assay in accordance with USP <85> under validated laboratory conditions, assay sensitivity ≤ 0.05 EU/mL. **Status** is assessed against acceptance criteria set by Eira London for research-grade (RUO) release.

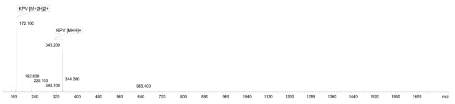
02 INSTRUMENT TRACES — Chromatogram & Mass Confirmation

CHROMATOGRAM HPLC–UV / PDA



Single dominant peak eluting at ~1 min, integrated at **99.74%** of total area. No significant co-eluting impurities.

MASS CONFIRMATION LC–MS



Protonated molecular ion **$[M+H]^+$ observed at m/z 343.2** (with $[M+2H]^{2+}$ at m/z 172.1), consistent with the KPV reference standard.

Released for research use. This batch conforms to Eira London's research-grade release specification on the basis of the independent analytical data above. Certificate refers only to the lot and sample(s) tested.

Eira London

AUTHORISED — QUALITY & COMPLIANCE
Batch released 20 April 2026

BATCH RUO VERIFIED

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MODERN HEALTH SCIENCE, REFINED

eiralondon.com
Batch COA available on request
Quote lot PH-kv101123