CRAFA
PEPTIDE & COMPOUND ANALYSIS

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

# CERTIFICATE OF ANALYSIS

Certificate of Analysis (COA)

No. CRF-2026-2084
Issued: 2026-10-16

## PRODUCT IDENTIFICATION

| | |
|---|---|
| PRODUCT | SKU / INTERNAL CODE |
| Glow-80 80 mg | CRF-2026-2084 |
| PRESENTATION | BATCH NUMBER |
| Lyophilised powder, 80 mg vial | LOT-2610-2084 |

| | | |
|---|---|---|
| CLIENT | SAMPLE RECEIVED | ANALYSIS DATE |
| veltispeptides.mx | 2026-10-11 | 2026-10-14 |
| PRODUCTION DATE | ISSUED | EXPIRY / RETEST |
| 2026-10-09 | 2026-10-16 | 2028-10-16 |

COMPOSITION

GHK-Cu 50 mg + BPC-157 10 mg + TB-500 10 mg + KPV 10 mg

MOLECULAR FORMULA

Blend (C14H22N6O4.Cu + C62H98N16O22 + C212H350N56O78S + C16H30N4O4)

| | |
|---|---|
| MOLECULAR WEIGHT | CAS NUMBER |
| 401.91 / 1419.5 / 4964.4 / 342.44 | N/A (blend) |

## ANALYTICAL METHOD

PANEL

SILVER - HPLC-UV + LC-MS/MS + ICP-MS (Pb/As/Cd/Hg) + LAL endotoxin

METHOD

RP-HPLC-UV 214 nm · LC-MS/MS ESI Q-TOF · ICP-MS · LAL kinetic chromogenic (USP <85>)

INSTRUMENT

Waters Xevo G3 · Agilent 7900 ICP-MS · Charles River Endosafe nexgen-PTS

Column: C4 2.1×100mm | Temperature: 60°C | Mobile phase: 0.1% TFA H2O / ACN | Flow: 0.3 mL/min | Retention time: 6.1 / 9.1 / 6.4 / 4.6 min

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## 1. PURITY & ASSAY - RP-HPLC-UV (214 nm)

| Test | Specification | Result | Status |
|---|---|---|---|
| HPLC Purity | ≥98.0% | 99.2% | PASS |
| Quantity (total) | 95.0-105.0% | 79.9 mg (99.9%) | PASS |
| Ratio Check (50:10:10:10) | ±5% | 50.1 / 9.9 / 10.0 / 10.0 mg | PASS |

RESEARCH USE ONLY - NOT FOR HUMAN OR VETERINARY USE

## 2. LC-MS/MS STRUCTURAL CONFIRMATION

| Test | Reported data | Status |
|---|---|---|
| GHK-Cu | [M+Cu-H]+ theor 402.1 \| obs 402.1 \| Δ 0.00 Da | PASS |
| BPC-157 | [M+H]+ theor 1420.5 \| obs 1420.7 \| Δ +0.20 Da | PASS |
| TB-500 | [M+H]+ theor 4964.4 \| obs 4964.9 \| Δ +0.50 Da | PASS |
| KPV | [M+H]+ theor 343.4 \| obs 343.3 \| Δ -0.10 Da | PASS |
| Sequence Coverage | GHK 100% · BPC-157 100% · TB-500 98% · KPV 100% | PASS |
| Key fragments | GHK b3 340.2 · BPC b9 866.4 · TB b12 1437.7 · KPV b2 244.2 / y2 219.1 | PASS |
| Cross-contamination | none - four masses baseline-resolved | PASS |

## 3. HEAVY METALS - ICP-MS (USP <232>/<233>)

| Test | Specification | Result | Status |
|---|---|---|---|
| Pb | ≤5.0 µg/g | <0.05 µg/g | PASS |
| As | ≤15.0 µg/g | <0.10 µg/g | PASS |
| Cd | ≤2.0 µg/g | <0.02 µg/g | PASS |
| Hg | ≤3.0 µg/g | <0.01 µg/g | PASS |

## 4. ENDOTOXIN - LAL kinetic chromogenic (USP <85>)

| Test | Reported data | Status |
|---|---|---|
| Result | <1.0 EU/mg limit \| 0.30 EU/mg \| PPC recovery 79% | PASS |

## FINAL BATCH RESULT

PASS - Conforms to specifications

## ANALYST NOTES

Four-component blend. KPV resolved at 4.6 min without co-elution; no diketopiperazine degradation in KPV fraction. All masses confirmed, Cu complex genuine.

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