CRAFA
PEPTIDE & COMPOUND ANALYSIS

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

# CERTIFICATE OF ANALYSIS

Certificate of Analysis (COA)

No. CRF-2026-2050
Issued: 2026-10-12

## PRODUCT IDENTIFICATION

| | |
|---|---|
| PRODUCT | Tirzepatide 30 mg |
| SKU / INTERNAL CODE | CRF-2026-2050 |
| PRESENTATION | Lyophilised powder, 30 mg vial |
| BATCH NUMBER | LOT-2610-2050 |

| CLIENT | SAMPLE RECEIVED | ANALYSIS DATE |
|---|---|---|
| veltispeptides.mx | 2026-10-07 | 2026-10-10 |

| PRODUCTION DATE | ISSUED | EXPIRY / RETEST |
|---|---|---|
| 2026-10-05 | 2026-10-12 | 2028-10-12 |

MOLECULAR FORMULA
C225H348N48O68

| MOLECULAR WEIGHT | CAS NUMBER |
|---|---|
| 4813.53 | 2023788-19-2 |

## 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 ACQUITY · 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: 13.6 min

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

| Test | Specification | Result | Status |
|---|---|---|---|
| HPLC Purity | ≥98.0% | 99.5% | PASS |
| Quantity | 95.0-105.0% | 30.1 mg (100.3%) | PASS |

## 2. LC-MS/MS STRUCTURAL CONFIRMATION

| Test | Reported data | Status |
|---|---|---|
| Theoretical [M+H]+ | 4814.5 \| Observed: 4814.6 \| Δ +0.10 Da | PASS |
| Sequence Coverage (MS/MS) | ≥95% \| 98% | PASS |
| Key fragments | b13 1491.8 · b22 2504.3 · y15 1672.9 · y28 3201.7 | PASS |
| Modifications | acylation intact; no truncation above 0.2% | PASS |

RESEARCH USE ONLY - NOT FOR HUMAN OR VETERINARY USE

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

| Test | Specification | Result | Status |
|---|---|---|---|
| Pb | | <0.05 µg/g | PASS |
| As | | <0.10 µg/g | PASS |
| Cd | | <0.02 µg/g | PASS |
| Hg | | <0.01 µg/g | PASS |

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

| Test | Reported data | Status |
|---|---|---|
| Result | <1.0 EU/mg limit \| 0.27 EU/mg \| PPC recovery 81% | PASS |

## FINAL BATCH RESULT

PASS - Conforms to specifications

## ANALYST NOTES

Dual agonist, high-dose presentation. Sequence verified.

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