CRAFA
PEPTIDE & COMPOUND ANALYSIS

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

CERTIFICATE OF ANALYSIS

Certificate of Analysis (COA)

No. CRF-2026-2101
Issued: 2026-10-17

PRODUCT IDENTIFICATION

PRODUCT	Oxytocin 10 mg
SKU / INTERNAL CODE	CRF-2026-2101
PRESENTATION	Lyophilised powder, 10 mg vial
BATCH NUMBER	LOT-2610-2101

CLIENT	SAMPLE RECEIVED	ANALYSIS DATE
veltispeptides.mx	2026-10-12	2026-10-15

PRODUCTION DATE	ISSUED	EXPIRY / RETEST
2026-10-10	2026-10-17	2028-10-17

MOLECULAR FORMULA
C43H66N12O12S2

MOLECULAR WEIGHT	CAS NUMBER
1007.2	50-56-6

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
Agilent 1290 · Thermo Q-Exactive · Agilent 7900 ICP-MS · Charles River Endosafe nexgen-PTS

Column: C18 4.6×150mm | Temperature: 35°C | Mobile phase: 0.1% TFA H2O / ACN | Flow: 1.0 mL/min | Retention time: 7.1 min

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

Test	Specification	Result	Status
HPLC Purity	≥98.0%	99.6%	PASS
Quantity	95.0-105.0%	10.0 mg (100.0%)	PASS
Related substances		desamido-oxytocin 0.18% · dimer <0.10%	PASS

2. LC-MS/MS STRUCTURAL CONFIRMATION

Test	Reported data	Status
Theoretical [M+H]+	1008.2 | Observed: 1008.5 | Δ +0.30 Da	PASS
Sequence Coverage (MS/MS)	≥95% | 100% (Cys-Tyr-Ile-Gln-Asn-Cys-Pro-Leu-Gly-NH2, 9 aa)	PASS
Key fragments	b2 310.1 · b4 538.2 · y3 301.2 · y6 702.4	PASS
Modifications	intramolecular disulfide Cys1-Cys6 confirmed (-2.02 Da vs reduced form); C-terminal Gly-NH2 confirmed; N-terminal Cys free amine	PASS

RESEARCH USE ONLY - NOT FOR HUMAN OR VETERINARY USE

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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 | 0.25 EU/mg | PPC recovery 84%	PASS

FINAL BATCH RESULT

PASS - Conforms to specifications

ANALYST NOTES

Nonapeptide hormone, disulfide bridge intact, no reduced-form contamination above 0.3%. Endotoxin and elemental impurities clean.

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Batch LOT-2610-2101 | Certificate CRF-2026-2101
Verify: VEL-d05e9b7c3f0a8b6d · crafalab.com/verify