CERTIFICATE OF ANALYSIS (COA)

Oxytocin Acetate

Doc No: VEL-COA-OXYTOCIN-VEL-202602-033 | Rev: 1.0 | 22 Feb 2026

PRODUCT IDENTIFICATION

Product Name	Oxytocin Acetate
Catalog / SKU	VEL-OXYTOC
CAS Number	50-56-6 (free base)
Formula	C43H66N12O12S2 · xC2H4O2
Mol. Weight	1007.2 g/mol (free base)

LOT / BATCH INFORMATION

Lot Number	VEL-202602-033
Manufacture Date	22 Feb 2026
Expiry Date	22 Feb 2028
Storage	-20°C, desiccated, protected from light
Sequence / Type	Cys-Tyr-Ile-Gln-Asn-Cys-Pro-Leu-Gly-NH2 (disulfide bond, acetate salt)

QUALITY CONTROL TEST RESULTS

TEST PARAMETER	SPECIFICATION	RESULT	METHOD	STATUS
Appearance	White lyophilized powder	Conforms	Visual	✓ PASS
Identity (MS)	MW confirmed ±0.5 Da	Confirmed	LC-MS	✓ PASS
Purity (HPLC)	≥98% (HPLC)	98.5%	RP-HPLC, UV 214	✓ PASS
Water Content (KF)	≤10.0% w/w	7.1%	Karl Fischer	✓ PASS
Residual Solvents	ICH Q3C Class 2	Conforms	GC-FID	✓ PASS
Bacterial Endotoxins	<10 EU/mg	<5 EU/mg	LAL (gel-clot)	✓ PASS
Sterility (14-day)	No growth	No growth	USP <71>	✓ PASS
pH (1% aqueous)	4.0–9.0	6.9	Potentiometric	✓ PASS
Solubility	Soluble in water (≥2 mg/mL)	Complete dissolution	Visual/turbidimetric	✓ PASS

OVERALL LOT DISPOSITION

✓ RELEASED FOR DISTRIBUTION

All specifications have been met for Lot **VEL-202602-033**. This lot is hereby released for research distribution.

Authorized by: Quality Control Manager, Vial & Error Labs
Authorization Date: 22 Feb 2026
Expiry: 22 Feb 2028

PHYSICAL & CHEMICAL DESCRIPTION

Appearance	White lyophilized powder
Solubility	Soluble in water (≥2 mg/mL)
Storage	-20°C, desiccated, protected from light
Sequence / Notes	Cys-Tyr-Ile-Gln-Asn-Cys-Pro-Leu-Gly-NH2 (disulfide bond, acetate salt)
Reconstitution	Add sterile water for injection (WFI) or appropriate buffer dropwise to achieve desired concentration. Gently swirl until dissolved. Do not vortex. Filter through 0.22 µm membrane filter if sterility is required.

Handling Notes	Allow vial to equilibrate to room temperature before opening to minimize condensation. Aliquot into single-use volumes before freezing to avoid repeated freeze-thaw cycles.

RESEARCH USE ONLY — IMPORTANT DISCLAIMER: This product is supplied for in vitro and ex vivo laboratory research purposes only. It has not been evaluated by the FDA or any other regulatory authority for safety, efficacy, or quality. It is not approved or intended for human therapeutic, diagnostic, veterinary, or food use. This COA is specific to the lot number stated above and should be retained with your records. Vial & Error Labs assumes no liability for misuse or use outside the intended research context. The purchaser assumes full responsibility for compliance with all applicable laws and regulations.