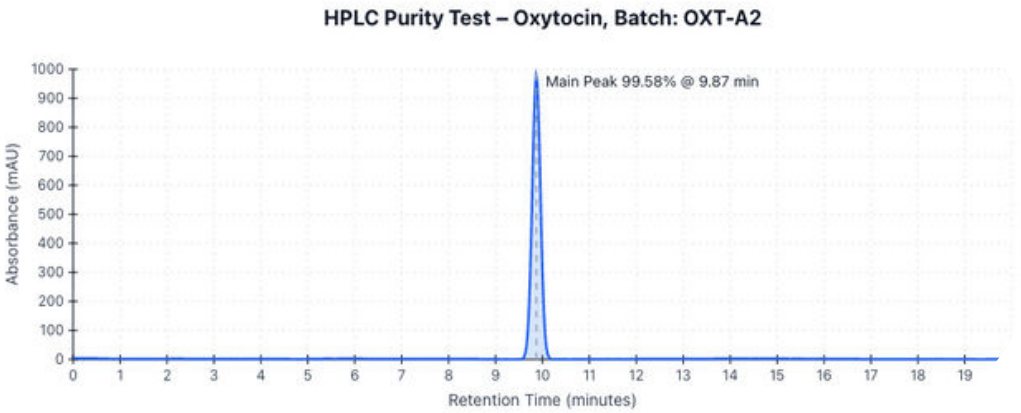
SynPeptides

CERTIFICATE OF ANALYSIS

ILLUSTRATIVE EXAMPLE - NOT A VERIFIED BATCH COA

BATCH VERIFICATION

BATCH	OXT-A2
Date	20.10.2025
Purity	99.58% HPLC
Heavy Metals	Non-detected



TECHNICAL PROPERTIES

Property	Details
Product	Oxytocin
Identifiers	CAS 50-56-6
Molecular Formula	$C_{43}H_{66}N_{12}O_{12}S_2$
Storage	Powder stable 3 yrs (–20 °C), 2 yrs (4 °C), 3 mo (25 °C). Reconstituted –80 °C 6 mo, –20 °C 1 mo, 20 °C 1 wk.
Chemical Structure	Cys-Tyr-Ile-Gln-Asn-Cys-Pro-Leu-Gly-NH_2 (cyclic nonapeptide hormone; induces uterine contractions and modulates social bonding).

TEST RESULTS

Test Item	Specification	Method	Result
Appearance	White to off white lyophilized solid	Visual	Conforms
Purity (HPLC)	≥ 98.5 %	HPLC	99.58%
TFA Content	≤ 0.50 % w/w	NMR	Conforms
Identification	Consistent with reference	MS/NMR	Pass

Certified by: D. Lubluc

Assurance Date: 20/10/2025

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