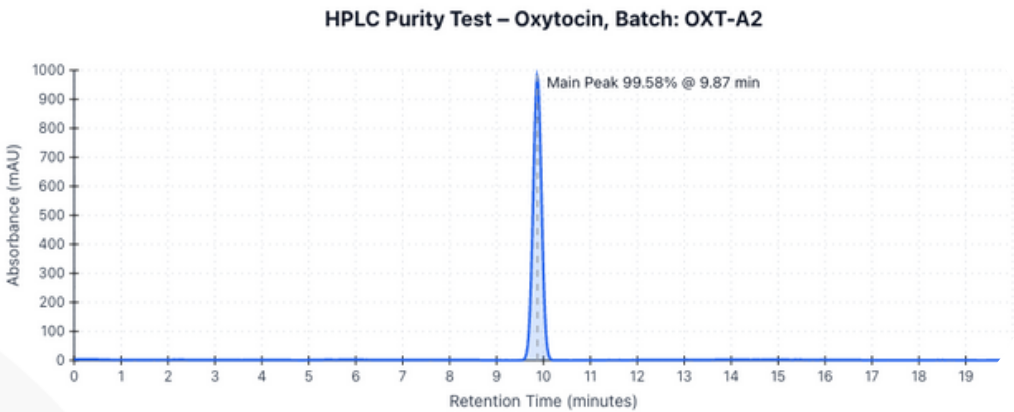


BATCH VERIFICATION

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. Imblue*

Assurance Date: 20/10/2025

This Certificate of Analysis confirms testing performed on the batch identified above. Manufactured in the Czech Republic and tested in collaboration with Axonis Analytics, all analyses were conducted using validated HPLC and NMR methods. Results are specific to this batch only and have been verified by Bluewell Peptides’ Quality Control Department.