



NEWAY SINOPHC TECH. LIMITED

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Certificate of Analysis (COA)

Product Information

Item	Details
Product Name	Oxytocin
Product Number	OXT-20260226
Batch Number	OXT-SH2026022601
Brand	SIGALD
CAS Number	50-56-6
MDL Number	MFCD00077671
Formula	$C_{43}H_{66}N_{12}O_{12}S_2$ (Nonapeptide)
Molecular Weight	1007.19 Da
Form	Lyophilized Powder
Quality Release Date	26 FEB 2026

Test Results

Test	Specification (Pharmaceutical Grade)	Result	Unit	Test Method
Appearance	White to off-white lyophilized powder	White lyophilized powder	-	Visual Inspection
Purity (HPLC)	≥ 98.0%	99.5%	%	High Performance Liquid Chromatography
Biological Activity	≥ 400 IU/mg	425 IU/mg	IU/mg	In Vivo Bioassay (Rat Uterus Contraction Method)
pH Value (1mg/mL in H ₂ O, 25°C)	3.0-5.0	4.1	-	Digital pH Meter
Moisture Content (Karl Fischer)	≤ 3.0%	1.2%	%	Karl Fischer Titration
Bacterial Endotoxin	≤ 1 EU/mg	0.3 EU/mg	EU/mg	Limulus Amebocyte Lysate Test
Sterility	Negative	Negative	-	Membrane Filtration Method
Heavy Metals (Pb)	≤ 5 ppm	0.5 ppm	ppm	Atomic Absorption Spectrometry (AAS)
Amino Acid Analysis	Conforms to theoretical ratio	Conforms	-	HPLC Amino Acid Analysis
Optical Rotation	$[\alpha]_{20}^D = -65$ to -75° (1mg/mL in H ₂ O)	-70.2°	-	Polarimeter
Aggregation (SEC-HPLC)	≤ 1.0%	0.4%	%	Size Exclusion Chromatography

Certification

This batch of Oxytocin has been tested in accordance with the established pharmaceutical industry standards (USP/EP) and meets all specified requirements for purity, biological activity and quality control limits. It is qualified for use in biopharmaceutical R&D, in vitro diagnostics and pharmaceutical formulation research.

Issue Date: 26 FEB 2026