

Oxytocin

Peptides & Peptide Materials · Issued 2026-10-10

1. IDENTIFICATION

Product name	Oxytocin
Synonyms	Ocytocin
CAS number	50-56-6
Molecular formula	C43H66N12O12S2
Molecular weight	1007.2
Product type	Peptide hormone (cyclic nonapeptide)
Catalog code	RCB-0053

2. DESCRIPTION

Cyclic nonapeptide hormone with a Cys1-Cys6 disulfide bridge.

3. TYPICAL PROPERTIES

Appearance	Stated on the Certificate of Analysis.
Purity (stated minimum)	>=99.0% (HPLC)

4. TEST METHODS

Appearance (Visual)	Conforms
Solubility (Visual (stated solvent and concentration))	Conforms
Identity (molecular mass) (ESI-MS)	Conforms
Purity (RP-HPLC (area %))	>= 99.0 %
Largest single impurity (RP-HPLC (area %))	Per specification
Peptide content (Nitrogen analysis or amino acid analysis)	Per specification
Water content (Karl Fischer)	Per specification
Counter-ion (acetate / TFA) (Ion chromatography or HPLC)	Per specification
Residual solvents (GC headspace (ICH Q3C))	Conforms: Meets ICH Q3C limits
Bacterial endotoxins (LAL (Ph. Eur. 2.6.14 / USP <85>))	Per specification
Amino acid analysis (AAA after hydrolysis)	Report result

5. STORAGE, PACKAGING AND PRICE

Price	Quoted on request — from 1 kg; volume pricing on your quotation
Storage	Stated on the Safety Data Sheet and Certificate of Analysis supplied with each batch.

Packaging	Sealed, labelled containers suited to the order quantity; confirmed on your quotation.
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6. REGULATORY INFORMATION

Classification	Supplied with buyer declaration
Status	Compliance Review Required

7. DOCUMENTATION

Released with your enquiry	Product specification, Certificate of Analysis (COA), Safety Data Sheet (SDS), Analytical data (chromatograms / spectra), Method of analysis (MOA), Residual solvents statement (ICH Q3C), TSE/BSE statement, Stability and storage statement, End-use / end-user declaration, GMP certificate / manufacturing licence — request them online
Shipped with each order	Batch Certificate of Analysis, packing list, commercial invoice