

Oxytocin EP10

Batch no OXYT-9-M-2511001  
Mf date Nov 06 2025  
Retest date Nov 05 2027

Sequence  $\text{H-Cys-Tyr-Ile-Gln-Asn-Cys-Pro-Leu-Gly-NH}_2$   
Molecular Formula  $\text{C}_{43}\text{H}_{66}\text{N}_{12}\text{O}_{12}\text{S}_2$   
Molecular Weight 1007.19  
CAS Registry Number 50-56-6

Dec 30 2025

Tests	Specifications	Results
Appearance	White powder, hygroscopic	White powder
Solubility	Very soluble in water or 1% acetic acid at a concentration of $\geq 1$ mg/ml to give a clear, colorless solution	Conforms
Identification	HPLC	Positive
Peptide purity (HPLC)	$\geq 95.0\%$	99.27%
pH	3.0 ~ 6.0	4.9
Amino acids	Asp: 0.90 ~ 1.10 Glu: 0.90 ~ 1.10 Pro: 0.90 ~ 1.10 Gly: 0.90 ~ 1.10 Leu: 0.90 ~ 1.10 Ile: 0.90 ~ 1.10 Tyr: 0.70 ~ 1.05 Cys: 1.4 ~ 2.1	0.96 1.02 1.05 1.00 1.03 0.99 1.02 1.88
Related substances (HPLC)	Largest single impurity $\leq 1.5\%$ Total impurities $\leq 5.0\%$	0.19% 0.73%
Acetic acid (HPLC)	6 ~ 10%	9.5%
Water (KF)	$\leq 5.0\%$	1.0%
Bacterial endotoxins	$\leq 200$ IU/mg	Conforms
Oxytocin activity	A) 1 mg of Oxytocin peptide is equivalent 600IU B) $\geq 400$ IU/mg	594 IU(Net) 530 IU(Wt)
N,N-Dimethyl formamide (GC)	$\leq 0.088\%$	Conforms
DCM (GC)	$\leq 0.06\%$	Conforms
Acetonitrile (GC)	$\leq 0.041\%$	Conforms
Assay (anhydrous & acetic acid-free)	93.0 ~ 102.0% of $\text{C}_{43}\text{H}_{66}\text{N}_{12}\text{O}_{12}\text{S}_2$	99.0%

Packaging & storage	In airtight container, protected from light, at a temperature of 2 ~ 8°C
Conclusion	Material complies with EP10