

Oxytocin EP10

Batch no OXYT-9-M-2401001
Mf date Jan 12 2024
Retest date Jan 11 2026

Sequence H-Cys-Tyr-Ile-Gln-Asn-Cys-Pro-Leu-Gly-NH₂
Molecular Formula C₄₃H₆₆N₁₂O₁₂S₂
Molecular Weight 1007.19
CAS Registry Number 50-56-6

Feb 21 2024

Tests	Specifications	Results
Appearance	White powder, hygroscopic	White powder
Solubility	Very soluble in water or 1% acetic acid at a concentration of ≥ 1 mg/ml to give a clear, colorless solution	Conforms
Identification	HPLC	Positive
Peptide purity (HPLC)	$\geq 95.0\%$	99.51%
pH	3.0 ~ 6.0	5.0
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 $\leq 5.0\%$	0.22% 0.49%
Acetic acid (HPLC)	6 ~ 10%	8.3%
Water (KF)	$\leq 5.0\%$	3.2%
Bacterial endotoxins	≤ 200 IU/mg	Conforms
Oxytocin activity	A) 1 mg of Oxytocin peptide is equivalent 600IU B) ≥ 400 IU/mg	594 IU(Net) 526 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 C ₄₃ H ₆₆ N ₁₂ O ₁₂ S ₂	99.0%
Packaging & storage	In airtight container, protected from light, at a temperature of 2 ~ 8°C	
Conclusion	Material complies with EP10	