

Certificate of Analysis

Product	Oxytocin Acetate	CAS No. :	6233-83-6
Product No. :	OXT-AC	Molecular Formula	C ₄₃ H ₆₆ N ₁₂ O ₁₂ S ₂ ·C ₂ H ₄ O ₂ (Oxytocin Acetate)
Sequence	Cys-Tyr-Ile-Gln-Asn-Cys-Pro-Leu-Gly-NH ₂ (Disulfide bond: Cys ₁ -Cys ₆)		
Batch No.	OXT-AC-260601	Quantity	2.0kg
Mfg. Date	May 26th, 2026	Retest Date	May 25th, 2028

【 ITEMS 】	【 SPECIFICATIONS 】	【 RESULTS 】
Appearance	White or almost white lyophilized powder	White lyophilized powder
Solubility	Freely soluble in water	Conforms
Solution clarity and color	Clear and colorless	Conforms
Specific optical rotation [α] _D ²⁰	-35.0° to -30.0° (anhydrous and sodium ion-free substance)	-32.6°
Identification by HPLC	The retention time of the principal peak of the test solution corresponds to that of the reference solution, as obtained in the Assay.	Conforms
Mass spectrum	1007.5±2.0	1007.4
pH	4.0-5.5	4.7
Water content(KF)	NMT 8.0%	3.5%
Acid group (Acetate)	NMT 12.0%	11.2%
Related substances(HPLC)	Any individual impurity: NMT 1.0% Total impurities: NMT 3.0%	0.38% 1.21%
Purity(HPLC)	NLT 98.0%	99.25%
Peptide content	NLT 90.0%	91.8%
Sodium ion	1.0-2.0%	1.3%
High molecular protein	NMT 0.5%	N.D
Amino acid content	Cys: 2.0~3.0 Tyr: 0.5~1.5 Ile: 1.0~2.0 Gln: 1.0~2.0 Asn: 1.0~2.0 Pro: 0.5~1.5 Leu: 1.0~2.0 Gly: 2.0~3.0 AEEA: Should be detected	2.3 0.9 1.6 1.3 1.2 0.8 1.4 2.4 Conforms



Residual solvent	Methylene chloride NMT 600ppm Acetonitrile NMT 410ppm Methyl tert-butyl ether NMT 5000 ppm DMF NMT 880ppm	N.D 32ppm N.D N.D
Peptide content	NLT 90.0%	91.8%
Bacterial endotoxins	NMT 10EU/mg	<3EU/mg
Microbial limits	TAMC NMT 100 cfu/g TYMC NMT 100 cfu/g E. Coli: Absent	<20 cfu/g <20 cfu/g Absent
Assay (Oxytocin Acetate)	95.0%~105.0% (Calculated with reference to the anhydrous and sodium ion-free substance.)	99.1%
Storage	Keep in tight container, protect from light, store at a temperature of -20±5°C.	
Report	Li peng	Date 2026.06.03
Reviewer	Fang Hui Liao	Date 2026.06.03
Conclusion: This batch of product complies with Enterprise Standards.		



It is only supplied as chemical product.
It is only for R&D use.

Testing Organization:
Shanghai High Purity Peptide Biotechnology Co., Ltd.
上海高纯肽生物科技有限公司