



CHANGCHUN ARTEL IMPORT & EXPORT TRADE CO., LTD

Address: Room 1404, Dianshi Square, Changchun City, Ji

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CERTIFICATE OF ANALYSIS

NO: DYC041611033

Product name	oxytocin
CAS Number	50-56-6
Molecule Structure	 Gly-Leu-Pro-Cys-Asn-Gln-Ile-Tyr-Cys
Molecule Formula	C ₄₃ H ₆₆ N ₁₂ O ₁₂ S ₂
Batch number	20190406
Manufacture date	2019-04-06
Testing date	2019-04-07

Items	Standard	Result
Appearance	White powder	Conforms
Solubility	Soluble in water or 1% acetic acid at a concentration of $\geq 1\text{mg/ml}$ to give a clear, colorless solution	Conforms
Identity by HPLC	The retention is same with the reference substance	Conforms
Amino acid composition	Gly: 0.85 ~ 1.10 Pro: 0.85 ~ 1.10 Leu: 0.85 ~ 1.10 Cys: 1.65 ~ 2.20 Asn: 0.85 ~ 1.10 Gln: 0.85 ~ 1.10 Ile: 0.85 ~ 1.10 Tyr: 0.85 ~ 1.10	1.02 1.06 1.01 1.88 0.96 1.01 0.99 1.02
PH	3.0 ~ 6.0	5.16
Specific optical rotation	C=1, 1% Hac	-21.2°
Purity	$\geq 98.0\%$	99.12%
Related substance (by HPLC)	Total impurities (%) $\leq 2.0\%$ Largest single impurity (%) $\leq 1.0\%$	0.88% 0.55%

Proofreader:

Li Bin

Q.C. Chief:

Wang Yan



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Acetate content (by HPLC)	$\leq 12.0\%$	6.7%
Water	$\leq 8\%$	5.7%
Peptide content (N%)	$\geq 80.0\%$	87.6%
Bacterial Endotoxins	$\leq 70\text{IU/mg}$	Conforms
Residual organic solvents	Acetonitrile $\leq 0.041\%$ (by GC) DMF $\leq 0.088\%$ (by GC) MeOH $\leq 0.3\%$ (by GC) TFA $\leq 0.1\%$ (by HPLC) DCM $\leq 0.06\%$ (by GC) MeCN $\leq 0.041\%$ (by GC)	Conforms
Assay	95%~105%	99.3%
Conclusion	Complies with the standard.	

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