Certificate of Analysis

Product	Oxytocin	**CAS No.**	50-56-6
Product No.	LJOXT-001	**Batch No.**	LJOXT2026101701
Date of Mfg	2026/10/17	**Retest Date**	2028/10/16
Test Method	In-house		
Storage Conditions	Protected from light, sealed, store at 2 to 8℃		

Test	**Acceptance Criteria**	**Results**
Appearance	White or off-white Powder	White Powder
Moisture absorption	Should have moisture-attracting properties	Conforms
Solubility	Easily dissolves in water; soluble in diluted acetic acid and ethanol (96%)	Conforms
Clarity and color of the solution	The solution should be clear and colorless	Conforms
Relative vorticity	-15° ~ -40°	-21.0°
Monoisotopic mass	1006.4±0.5 Da	1006.44 Da
HPLC	In the chromatogram recorded under the content determination section, the retention time of the main peak of the test solution should match the retention time of the main peak of the reference solution.	Conforms
Infrared spectrum	The chart should match the standard.	Conforms
pH	3.5~6.0	5.0
Water content	≤5.0%	2.5%
Acetic acid	6.0%~10.0%	7.7%
Amino Acid Ratio	Aspartic acid 0.90~ 1.10	1.07
	Glutamic acid 0.90~ 1.10	0.98
	Proline 0.90~ 1.10	0.98
	Glycine 0.90~ 1.10	1.05

	Leucine 0.90~ 1.10	0.98
	Isoleucine 0.90~ 1.10	0.96
	Tyrosine 0.70~ 1.05	0.94
	Cysteine 1.4~ 2.1	1.69
Purity	≥98.0%	99.8%
Related Substances	Max Single Impurity ≤1.0%	0.2%
	Total Impurities ≤2.0%	0.2%
Residual Solvents	Methanol ≤3000ppm	ND
	Acetonitrile ≤410ppm	42ppm
	Methylene chloride ≤600ppm	ND
Bacterial Endotoxin	≤300IU/mg	Conforms
Microbial Limit	Total aerobic bacteria ≤ 100cfu/g	Conforms
	Mould & Yeast ≤ 100cfu/g	Conforms
Assay	Calculated on the anhydrous and acetate-free basis, the content of Oxytocin ($C_{43}H_{66}N_{12}O_{12}S_2$) shall be between 93.0 % and 102.0 %.	99.5%
Efficacy	≤480 IU/mg	536 IU/mg
Conclusion	☑Meet the requirements ☐Do not meet the requirements	
Remark	**It is only supplied as chemical product.** **It is only for R&D use.** **NOT for human or animal consumption.**	

Reporter/Date: 张洁 2026/10/20 **Approver/Date:** 刘辉 2026/10/20