CERTIFICATE OF ANALYSIS

Product Information

Product Name:	Oxytocin
Lot No.:	3140064
Sequence:	Cys(1)-Tyr-Ile-Gln-Asn-Cys(1)-Pro-Leu-Gly
Modifications:	C-Terminal Amide；Disulfide bridge: s=s 1-6
Storage Conditions:	-20°C.

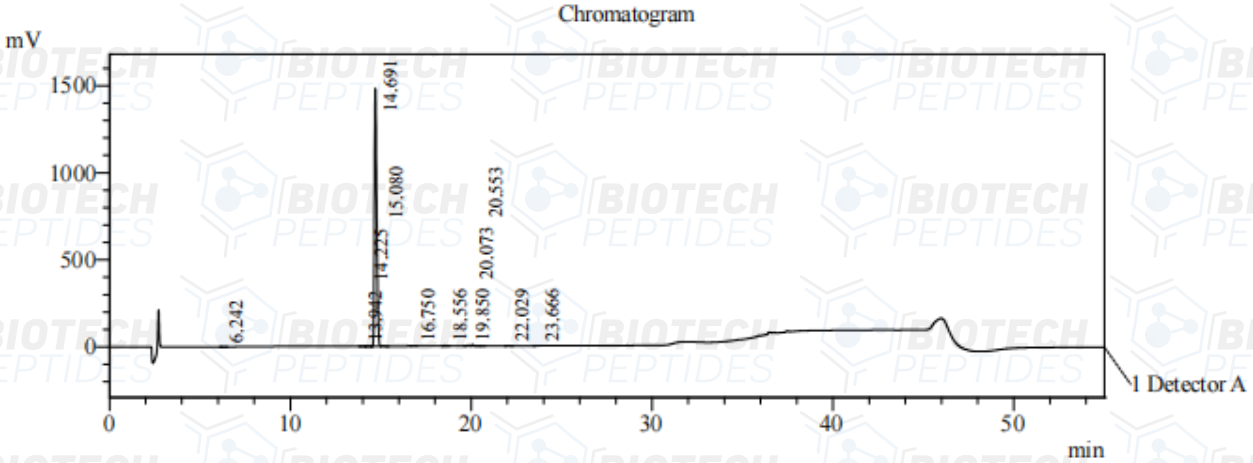
Quality Control

Test Items	Specifications	Results
Appearance	White to off-white lyophilized powder	White to off-white lyophilized powder (Conforms)
Molecular Weight (MS)	1007.19±1.0 Da	1006.40 Da
Purity by HPLC	>98%	98.6%
Retention Time (HPLC)	±0.2min of Standard	Conforms
Net Peptide Content	≥10mg	11.0mg
Solubility	10 mg/1ml H_2O	Clearly soluble
Acetic acid content	6.0%~10.0%	9.0%
TFA Content	≤0.500%	Conforms
DCM Content	≤0.060%	N.D.
DMF Content	≤0.088%	N.D.
Total Aerobic Count	≤100CFU/g	Conforms
Yeast & Molds Count	≤100CFU/g	Conforms
Endotoxins	≤0.5EU/mg	Conforms

Report Date: 23 Feb 2026

	Sample Information
Lot. No	3140064
Pump A	0.1% trifluoroacetic in 100% water
Pump B	0.1% trifluoroacetic in 100% acetonitrile
Total Flow	0.8ml/min
Wavelength	220nm
Analytical column type	Phenomenex Luna 3um C18 (2) (4.6*150mm*3um)
Dissolution method	100%H_2O
Acquisition Time	2026/2/23 10:55:01
Inj. Volume	10ul

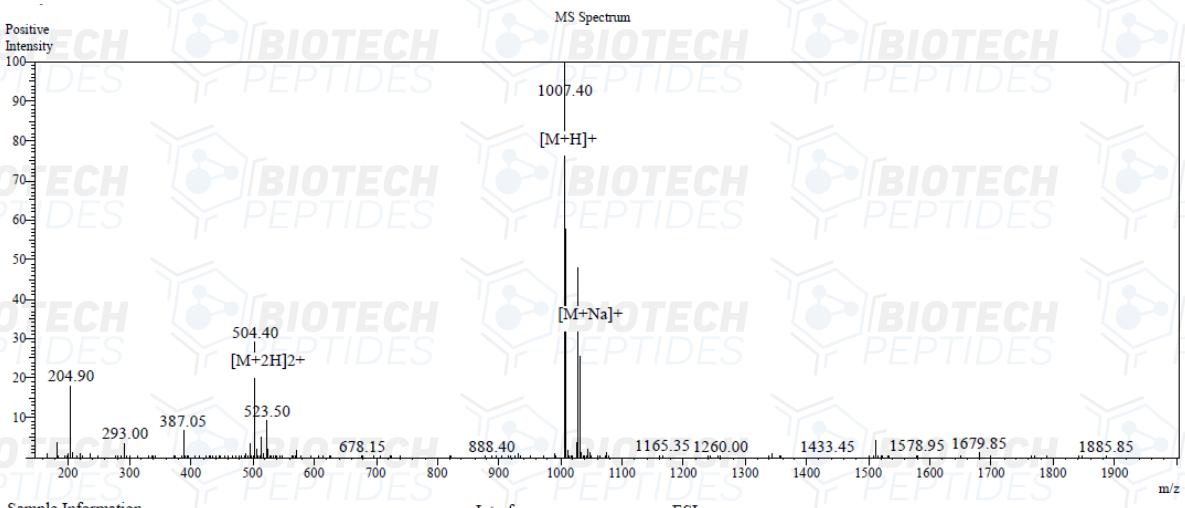
Time	Module	Action	Value
0.01	Pumps	B.Conc	15
25.00	Pumps	B.Conc	30
30.00	Pumps	B.Conc	90
40.00	Pumps	B.Conc	90
41.00	Pumps	B.Conc	15
55.00	Controller	Stop	



PeakTable

Detector A 220nm

Peak#	Ret. Time	Area	Height	Area %
1	6.242	1452	215	0.011
2	13.942	4119	332	0.031
3	14.225	7937	965	0.059
4	14.691	13165338	1478607	98.634
5	15.080	17997	2031	0.135
6	16.750	12337	1693	0.092
7	18.556	24811	3848	0.186
8	19.850	42444	3948	0.318
9	20.073	53882	6879	0.404
10	20.553	2415	379	0.018
11	22.029	12104	1405	0.091
12	23.666	2854	253	0.021
Total		13347689	1500555	100.000



Sample Information	
Dissolution method	:3%HAC+25%ACN+72%H2O
Date Acquired	: 2026/2/23 14:46:08
Injection Volume	: 1ul
Interface	:ESI
Nebulizing Gas Flow	:1.50L/min
CDL Temp	:250C
CDL Volt	:0v
Block Temp	:200
Prerod Bias	:+4.5kv
Detector	:-0.2kv
T.Flow	:0.2ml/min
B.conc	:30%H2O/70%MeOH

Lot No.	3140064
Theoretical	1007.19
Observed	1006.40