



CERTIFICATE OF ANALYSIS

Issued by an ISO/IEC 17025-accredited laboratory · raw data appended (page 2)

PASS

QC released for dispatch



Scan to verify

Tesamorelin — 20mg

Tesamorelin Acetate

1. PRODUCT IDENTIFICATION

Synonym	Tesamorelin Acetate	Label claim	20mg
Sequence / structure	trans-3-Hexenoyl-[Sermorelin(1-29)]-NH ₂	Lot / Batch	ZX260512-252 / B95993
Mol. formula	C221H366N72O67S	Manufacture date	19 May 2026
Mol. weight	5135.89 g/mol	Date of analysis	31 May 2026
CAS number	218949-48-5	Storage	-20 °C, dark, desiccated
Salt form	Acetate salt		

2. ANALYTICAL TEST RESULTS

Test	Method	Specification	Result	Verdict
Appearance	Visual	White/off-white powder	White to off-white lyophilized powder	PASS
Identity (ESI-MS)	LC-MS	Matches 5135.89 Da	5135.86 Da (Δ -6 ppm)	PASS
Purity	RP-HPLC, UV 220 nm	$\geq 98.0\%$ area	99.76%	PASS
Related substances	RP-HPLC	Single ≤ 1.0 / Total $\leq 2.0\%$	0.14 / 0.24%	PASS
Water content	Karl Fischer (USP <921>)	$\leq 8.0\%$	2.8%	PASS
Counter-ion: acetate	Ion chromatography	Report (3.0–15.0%)	10.4%	PASS
Net peptide content	Amino-acid analysis	$\geq 80.0\%$	85.6%	PASS
Bacterial endotoxin	LAL kinetic (USP <85>)	< 5.0 EU/mg	0.11 EU/mg	PASS
Heavy metals	ICP-MS (ICH Q3D)	Conforms	Conforms	PASS

CONCLUSION

All tested parameters CONFORM to the acceptance specifications. The batch is of high chromatographic purity ($\geq 98\%$) with an impurity profile, identity and residual/contaminant results meeting pharmaceutical-grade quality requirements. Material released. Supporting RP-HPLC chromatogram and ESI-MS spectrum are appended on page 2.

DLW.

Dr. Li Wenhua

Analyst · 31 May 2026 · Zhongxi Research Institute

DGT.

Dr. Guo Tao (QC Manager)

Approved by · 31 May 2026 · Zhongxi Research Institute

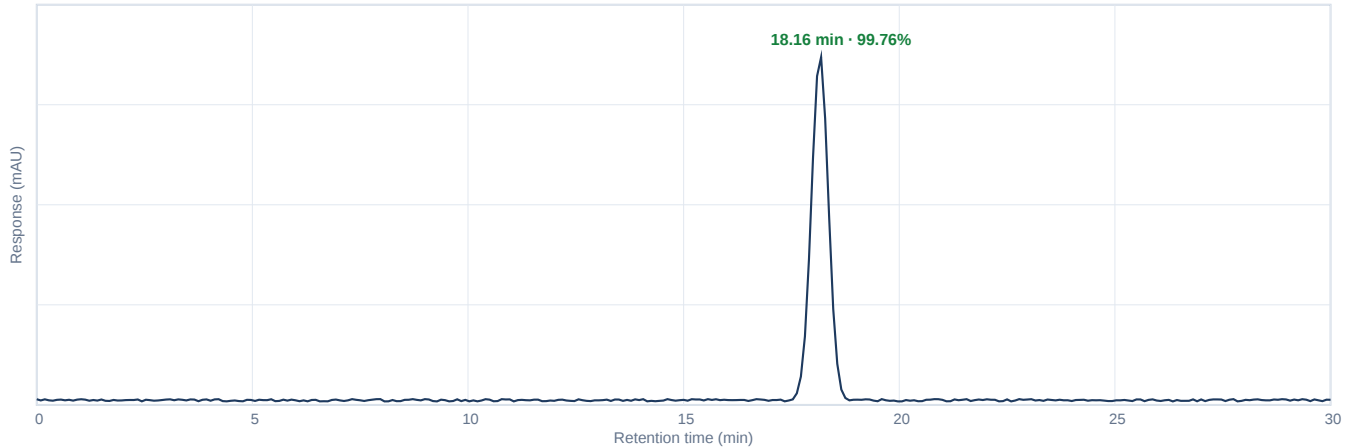


APPENDIX — ANALYTICAL RAW DATA

Tesamorelin 20mg · Lot ZX260512-252 · Cert. ZXR-COA-2026-12957

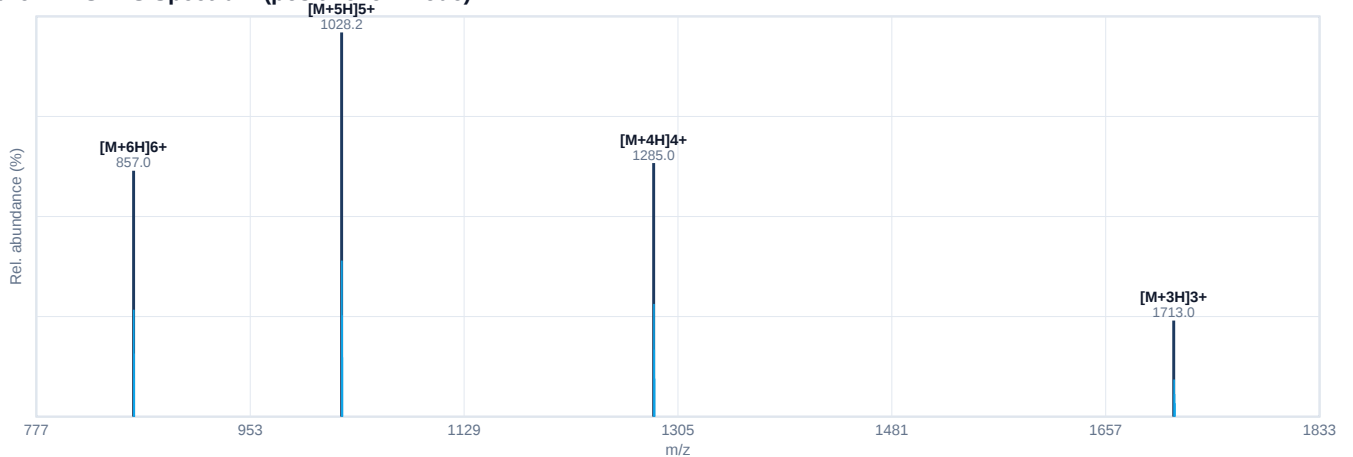


Figure 1. RP-HPLC Chromatogram (UV 220 nm)



Peak #	RT (min)	Area (μV·s)	Area %	Assignment
1	18.16	1048831	99.76	Main (target)
2	13.47	1340	0.14	Impurity / related substance
3	12.74	374	0.04	Impurity / related substance

Figure 2. ESI-MS Spectrum (positive ion mode)



Interpretation

Identity confirmed by ESI-MS. Observed ions $[M+3H]^{3+}$ 1713.0, $[M+4H]^{4+}$ 1285.0, $[M+5H]^{5+}$ 1028.2, $[M+6H]^{6+}$ 857.0 deconvolute to a neutral monoisotopic average mass of 5135.86 Da (theoretical 5135.89 Da; mass error -6 ppm), consistent with Tesamorelin. No co-eluting species above 0.5% indicative of misidentification.

Methods — RP-HPLC: Agilent 1260 Infinity II; Zorbax SB-C18 4.6×250 mm, 5 μm; A: 0.1% TFA in water, B: 0.1% TFA in MeCN; 10–70% B over 30 min; 1.0 mL/min; 25 °C; 20 μL injection. MS: AB Sciex TripleTOF, ESI+, capillary 4.5 kV, deconvolution by Bio Tool Kit. KF: Metrohm 901. IC: Thermo Dionex ICS-6000. ICP-MS: Agilent 7900.