



CERTIFICATE OF ANALYSIS

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

PASS

QC released for dispatch



Scan to verify

Sermorelin — 10mg

Sermorelin Acetate

1. PRODUCT IDENTIFICATION

Synonym	Sermorelin Acetate	Label claim	10mg
Sequence / structure	Tyr-Ala-Asp-Ala-Ile-Phe-Thr-Asn-Ser-Tyr-Arg-Lys-Val-Leu-Gly-Gln-Leu-Ser-Ala-Arg-Lys-Leu-Leu-Gln-Asp-Ile-Met-Ser-Arg-NH ₂	Lot / Batch	ZX260512-430 / B62513
Mol. formula	C149H246N44O42S	Manufacture date	21 May 2026
Mol. weight	3357.88 g/mol	Date of analysis	2 Jun 2026
CAS number	86168-78-7	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 3357.88 Da	3357.86 Da (Δ -6 ppm)	PASS
Purity	RP-HPLC, UV 220 nm	$\geq 98.0\%$ area	98.49%	PASS
Related substances	RP-HPLC	Single ≤ 1.0 / Total $\leq 2.0\%$	0.90 / 1.51%	PASS
Water content	Karl Fischer (USP <921>)	$\leq 8.0\%$	4.2%	PASS
Counter-ion: acetate	Ion chromatography	Report (3.0–15.0%)	10.8%	PASS
Net peptide content	Amino-acid analysis	$\geq 80.0\%$	84.1%	PASS
Bacterial endotoxin	LAL kinetic (USP <85>)	< 5.0 EU/mg	0.03 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.

DWM.

Dr. Wang Mei

Analyst · 2 Jun 2026 · Zhongxi Research Institute

DFH.

Dr. Fang Hong (QC Manager)

Approved by · 2 Jun 2026 · Zhongxi Research Institute

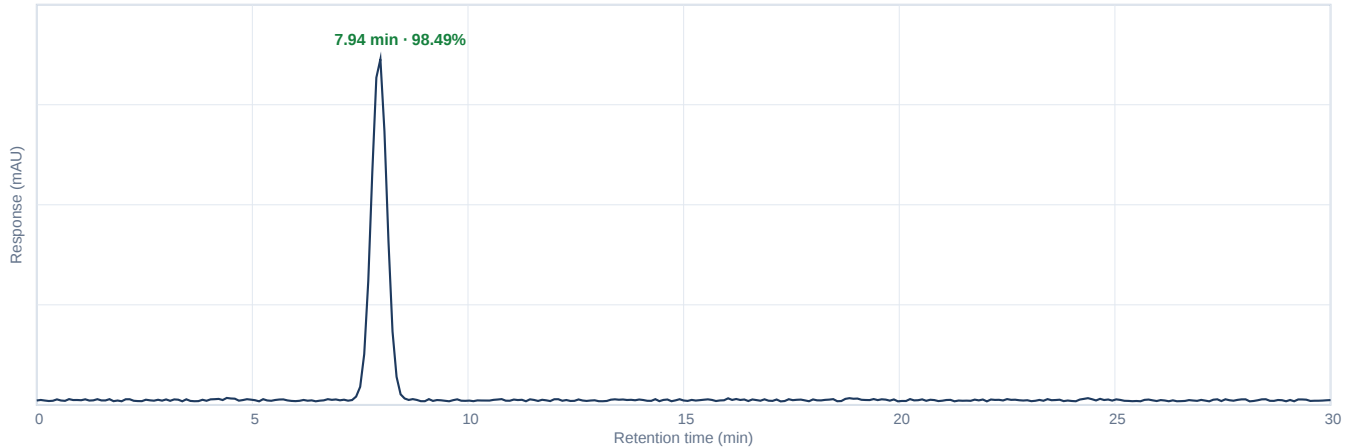


APPENDIX — ANALYTICAL RAW DATA

Sermorelin 10mg · Lot ZX260512-430 · Cert. ZXR-COA-2026-43114

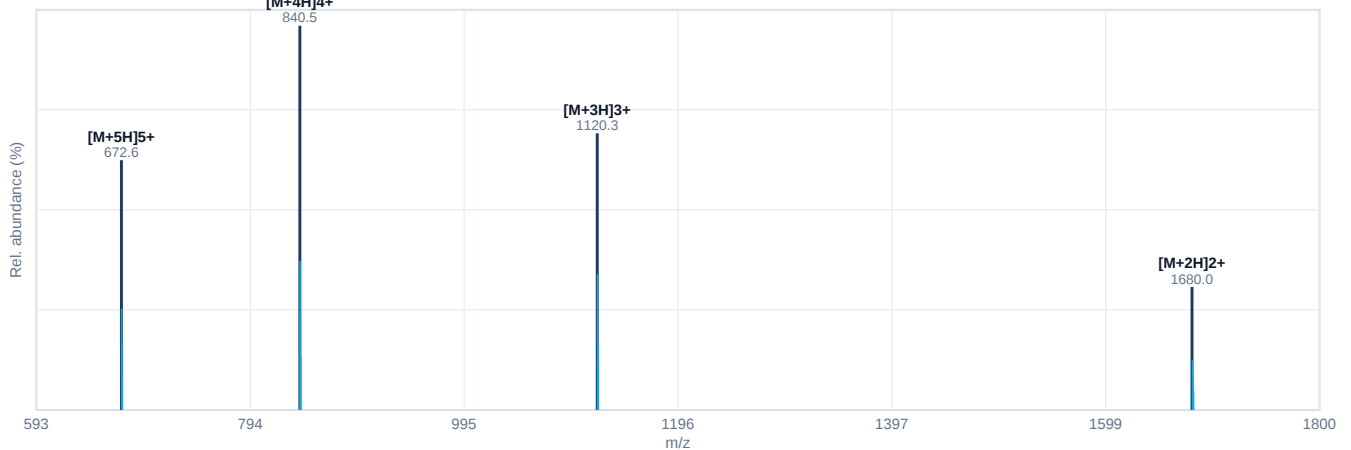


Figure 1. RP-HPLC Chromatogram (UV 220 nm)



Peak #	RT (min)	Area (μV·s)	Area %	Assignment
1	7.94	935306	98.49	Main (target)
2	19.02	5222	0.52	Impurity / related substance
3	4.39	3491	0.38	Impurity / related substance
4	24.45	3505	0.32	Impurity / related substance
5	16.05	2971	0.29	Impurity / related substance

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



Interpretation

Identity confirmed by ESI-MS. Observed ions [M+2H]²⁺ 1680.0, [M+3H]³⁺ 1120.3, [M+4H]⁴⁺ 840.5, [M+5H]⁵⁺ 672.6 deconvolute to a neutral monoisotopic-average mass of 3357.86 Da (theoretical 3357.88 Da; mass error -6 ppm), consistent with Sermorelin. 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.