Certificate of Analysis

分析检测报告合集

72 completed Certificates of Analysis · raw HPLC & MS data appended

ISSUING LABORATORY	Zhongxi Research Institute Room 121, 1F, Building 1, Yard 8 Hangfeng Road, Fengtai District, Beijing 100070, China
ACCREDITATION	CMA Accredited · CNAS Accredited · ISO/IEC 17025
WEB	https://www.yjsba.com/jcxm/qita/16188.html
CLIENT	Rejenesis Enterprises LLC (Rejenesis Peptides) 418 Broadway #10676, Albany, NY 12207, USA
MANUFACTURE DATE	Per certificate (between 12 May and 2 June 2026)
DATE OF ANALYSIS	Per certificate (3–14 days after manufacture; mid-May to mid-June 2026)

Each certificate reports

- Appearance · Identity by ESI-MS · Purity by RP-HPLC (≥ 98%) · Related substances
- Water (Karl Fischer) · Counter-ion acetate by ion chromatography · Net peptide content
- Bacterial endotoxin (LAL) · Heavy metals (ICP-MS) · GHK-Cu copper content by ICP-MS
- Blends: every component confirmed & quantified separately
- Appended raw RP-HPLC chromatogram and ESI-MS spectrum (page 2 of each COA)

Batch-specific analytical values; purity and impurity profiles vary lot-to-lot as expected of genuine testing.

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CERTIFICATE OF ANALYSIS

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

PASS
QC released for dispatch

Scan to verify

BPC-157 — 10mg

Body Protection Compound-157

1. PRODUCT IDENTIFICATION

Synonym	Body Protection Compound-157	**Label claim**	10mg
Sequence / structure	Gly-Glu-Pro-Pro-Pro-Gly-Lys-Pro-Ala-Asp-Asp-Ala-Gly-Leu-Val	**Lot / Batch**	ZX260512-553 / B74520
Mol. formula	C62H98N16O22	**Manufacture date**	20 May 2026
Mol. weight	1419.54 g/mol	**Date of analysis**	30 May 2026
CAS number	137525-51-0	**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 1419.54 Da	1419.52 Da (Δ -14 ppm)	**PASS**
Purity	RP-HPLC, UV 220 nm	≥ 98.0% area	98.77%	**PASS**
Related substances	RP-HPLC	Single ≤1.0 / Total ≤2.0%	0.69 / 1.23%	**PASS**
Water content	Karl Fischer (USP <921>)	≤ 8.0%	2.5%	**PASS**
Counter-ion: acetate	Ion chromatography	Report (3.0–15.0%)	6.5%	**PASS**
Net peptide content	Amino-acid analysis	≥ 80.0%	90.0%	**PASS**
Bacterial endotoxin	LAL kinetic (USP <85>)	< 5.0 EU/mg	0.16 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 (≥ 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.

DHR.

Dr. Huang Rui
Analyst · 30 May 2026 · Zhongxi Research Institute

DFH.

Dr. Fang Hong (QC Manager)
Approved by · 30 May 2026 · Zhongxi Research Institute

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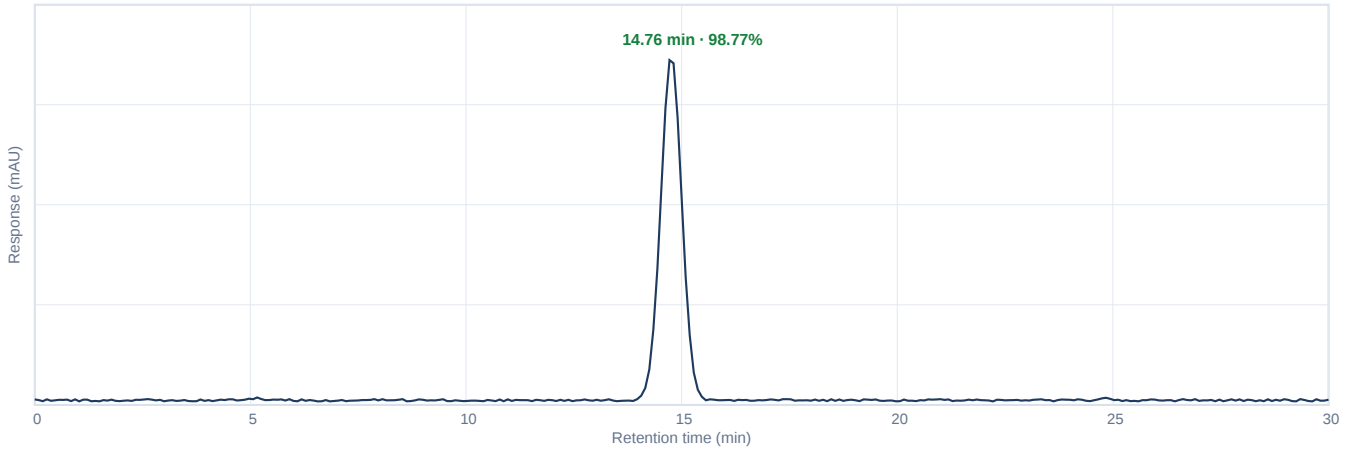
APPENDIX — ANALYTICAL RAW DATA

BPC-157 10mg · Lot ZX260512-553 · Cert. ZXR-COA-2026-33587

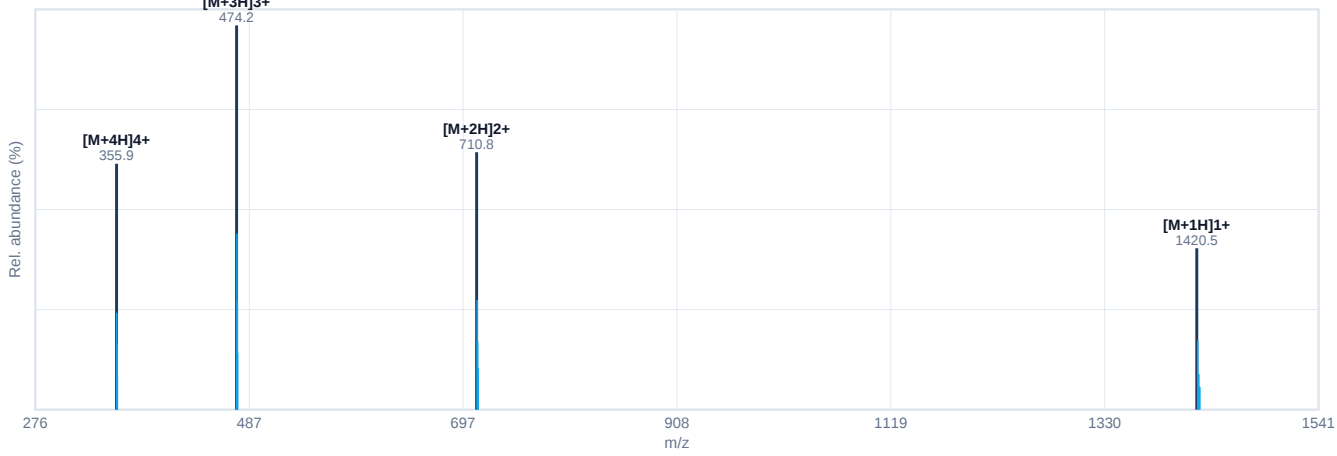
Scan to verify

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



Peak #	RT (min)	Area (μV·s)	Area %	Assignment
1	14.76	938031	98.77	Main (target)
2	24.76	6188	0.64	Impurity / related substance
3	5.12	6076	0.59	Impurity / related substance

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



Interpretation

Identity confirmed by ESI-MS. Observed ions [M+1H]1+ 1420.5, [M+2H]2+ 710.8, [M+3H]3+ 474.2, [M+4H]4+ 355.9 deconvolute to a neutral monoisotopic-average mass of 1419.52 Da (theoretical 1419.54 Da; mass error -14 ppm), consistent with BPC-157. 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.

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CERTIFICATE OF ANALYSIS

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

PASS
QC released for dispatch

Scan to verify

TB-500 — 10mg

Thymosin Beta-4

1. PRODUCT IDENTIFICATION

Synonym	Thymosin Beta-4	**Label claim**	10mg
Sequence / structure	Ac-SDKPDMAEIEKFDKSKLKKTETQEKNPLPSK ETIEQEKQAGES	**Lot / Batch**	ZX260512-449 / B42640
Mol. formula	C212H350N56O78S	**Manufacture date**	17 May 2026
Mol. weight	4963.44 g/mol	**Date of analysis**	23 May 2026
CAS number	77591-33-4	**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 4963.44 Da	4963.49 Da (Δ 10 ppm)	**PASS**
Purity	RP-HPLC, UV 220 nm	≥ 98.0% area	98.93%	**PASS**
Related substances	RP-HPLC	Single ≤1.0 / Total ≤2.0%	0.72 / 1.07%	**PASS**
Water content	Karl Fischer (USP <921>)	≤ 8.0%	1.6%	**PASS**
Counter-ion: acetate	Ion chromatography	Report (3.0–15.0%)	10.3%	**PASS**
Net peptide content	Amino-acid analysis	≥ 80.0%	86.3%	**PASS**
Bacterial endotoxin	LAL kinetic (USP <85>)	< 5.0 EU/mg	0.07 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 (≥ 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 · 23 May 2026 · Zhongxi Research Institute

DLX.

Dr. Lin Xia (QC Manager)
Approved by · 23 May 2026 · Zhongxi Research Institute

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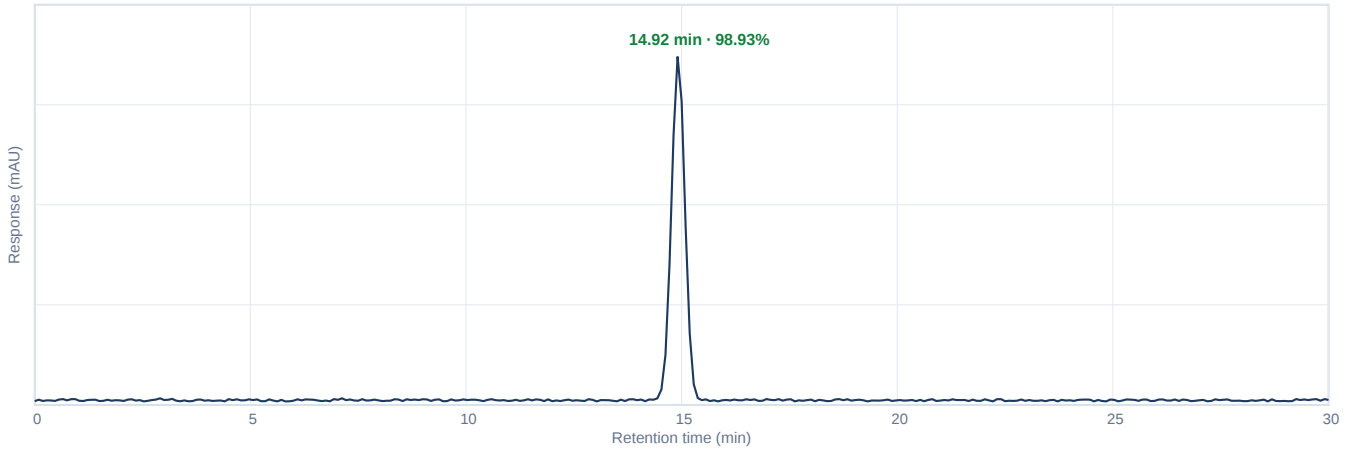
APPENDIX — ANALYTICAL RAW DATA

TB-500 10mg · Lot ZX260512-449 · Cert. ZXR-COA-2026-52066

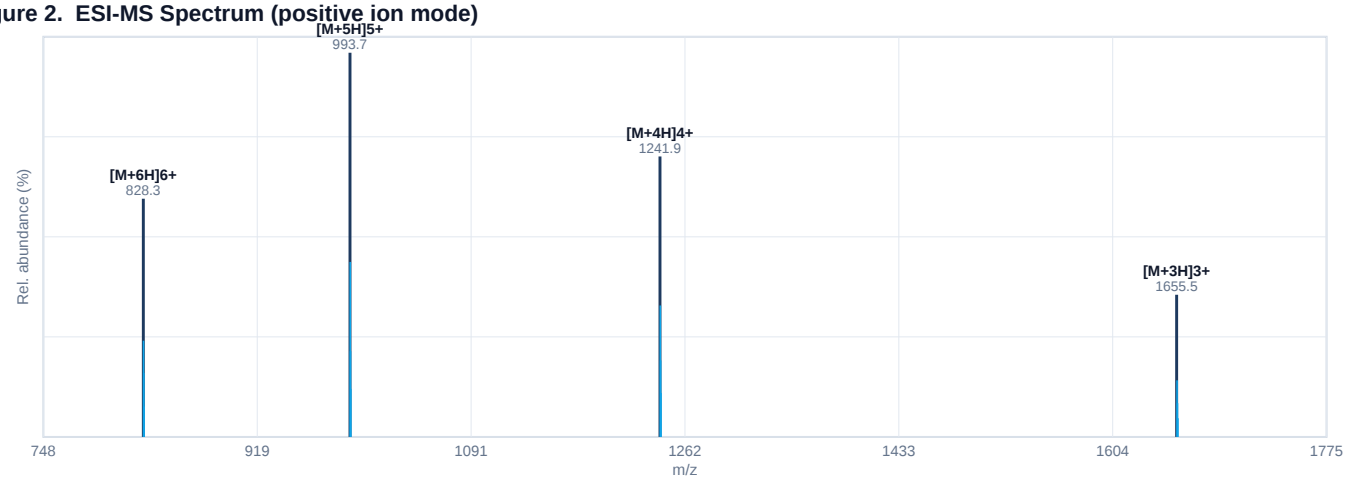
Scan to verify

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



Peak #	RT (min)	Area (µV·s)	Area %	Assignment
1	14.92	1023881	98.93	Main (target)
2	3.01	3917	0.37	Impurity / related substance
3	7.13	3801	0.35	Impurity / related substance
4	17.11	2387	0.22	Impurity / related substance
5	7.94	1219	0.13	Impurity / related substance

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



Interpretation

Identity confirmed by ESI-MS. Observed ions [M+3H]3+ 1655.5, [M+4H]4+ 1241.9, [M+5H]5+ 993.7, [M+6H]6+ 828.3 deconvolute to a neutral monoisotopic-average mass of 4963.49 Da (theoretical 4963.44 Da; mass error 10 ppm), consistent with TB-500. 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.

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CERTIFICATE OF ANALYSIS

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

PASS
QC released for dispatch

Scan to verify

GHK-Cu — 50mg

Copper Peptide GHK-Cu

1. PRODUCT IDENTIFICATION

Synonym	Copper Peptide GHK-Cu	**Label claim**	50mg
Sequence / structure	Gly-His-Lys : Cu(II) complex	**Lot / Batch**	ZX260512-694 / B82408
Mol. formula	C14H22CuN6O4	**Manufacture date**	17 May 2026
Mol. weight	401.91 g/mol	**Date of analysis**	28 May 2026
CAS number	89030-95-5	**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 401.91 Da	401.91 Da (Δ 0 ppm)	**PASS**
Purity	RP-HPLC, UV 220 nm	≥ 98.0% area	99.81%	**PASS**
Related substances	RP-HPLC	Single ≤1.0 / Total ≤2.0%	0.12 / 0.19%	**PASS**
Water content	Karl Fischer (USP <921>)	≤ 8.0%	1.9%	**PASS**
Counter-ion: acetate	Ion chromatography	Report (3.0–15.0%)	6.1%	**PASS**
Net peptide content	Amino-acid analysis	≥ 80.0%	90.3%	**PASS**
Bacterial endotoxin	LAL kinetic (USP <85>)	< 5.0 EU/mg	0.04 EU/mg	**PASS**
Heavy metals	ICP-MS (ICH Q3D)	Conforms	Conforms	**PASS**
Copper content	ICP-MS (identity)	15.0–16.5% (theory 15.8%)	15.8%	**PASS**

CONCLUSION
All tested parameters CONFORM to the acceptance specifications. The batch is of high chromatographic purity (≥ 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.

DZL.

Dr. Zhao Liang
Analyst · 28 May 2026 · Zhongxi Research Institute

DGT.

Dr. Guo Tao (QC Manager)
Approved by · 28 May 2026 · Zhongxi Research Institute

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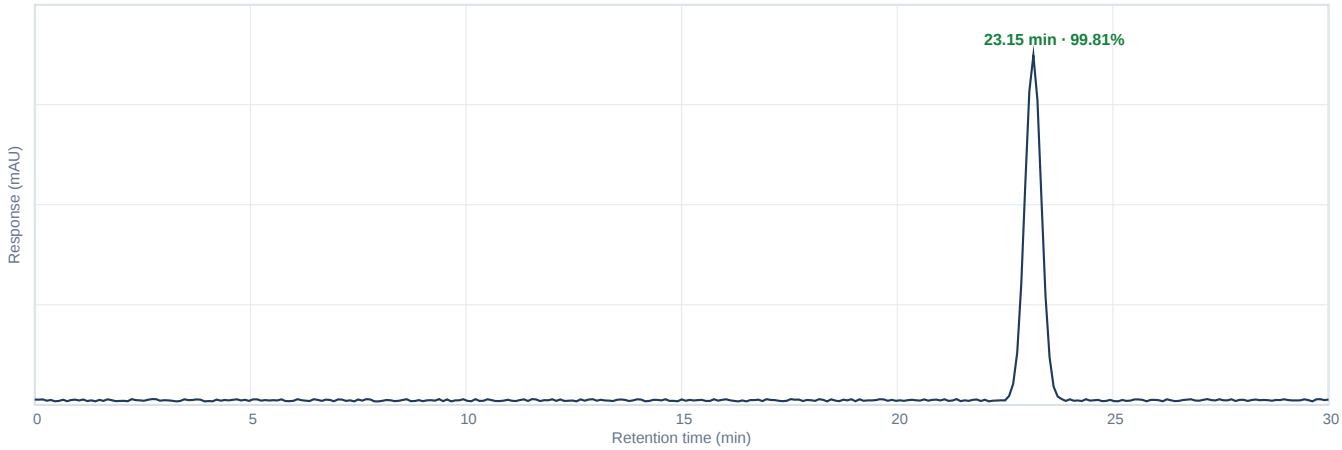
APPENDIX — ANALYTICAL RAW DATA

GHK-Cu 50mg · Lot ZX260512-694 · Cert. ZXR-COA-2026-60640

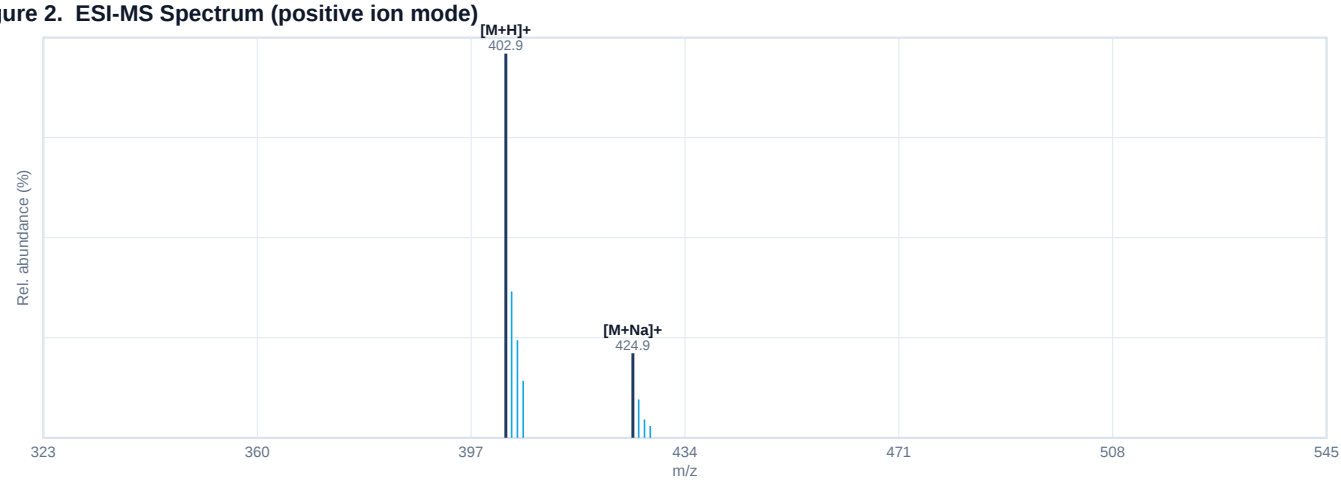
Scan to verify

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



Peak #	RT (min)	Area (μV·s)	Area %	Assignment
1	23.15	1065394	99.81	Main (target)
2	8.55	846	0.08	Impurity / related substance
3	21.78	677	0.07	Impurity / related substance
4	4.73	372	0.04	Impurity / related substance

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



Interpretation

Identity confirmed by ESI-MS. Observed ions [M+H]+ 402.9, [M+Na]+ 424.9 deconvolute to a neutral monoisotopic-average mass of 401.91 Da (theoretical 401.91 Da; mass error 0 ppm), consistent with GHK-Cu. 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.

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CERTIFICATE OF ANALYSIS

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

PASS
QC released for dispatch

Scan to verify

GHK-Cu — 100mg

Copper Peptide GHK-Cu

1. PRODUCT IDENTIFICATION

Synonym	Copper Peptide GHK-Cu	**Label claim**	100mg
Sequence / structure	Gly-His-Lys : Cu(II) complex	**Lot / Batch**	ZX260512-696 / B17894
Mol. formula	C14H22CuN6O4	**Manufacture date**	12 May 2026
Mol. weight	401.91 g/mol	**Date of analysis**	19 May 2026
CAS number	89030-95-5	**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 401.91 Da	401.91 Da (Δ 0 ppm)	**PASS**
Purity	RP-HPLC, UV 220 nm	≥ 98.0% area	98.49%	**PASS**
Related substances	RP-HPLC	Single ≤1.0 / Total ≤2.0%	0.68 / 1.51%	**PASS**
Water content	Karl Fischer (USP <921>)	≤ 8.0%	3.1%	**PASS**
Counter-ion: acetate	Ion chromatography	Report (3.0–15.0%)	6.8%	**PASS**
Net peptide content	Amino-acid analysis	≥ 80.0%	88.4%	**PASS**
Bacterial endotoxin	LAL kinetic (USP <85>)	< 5.0 EU/mg	0.06 EU/mg	**PASS**
Heavy metals	ICP-MS (ICH Q3D)	Conforms	Conforms	**PASS**
Copper content	ICP-MS (identity)	15.0–16.5% (theory 15.8%)	15.8%	**PASS**

CONCLUSION
All tested parameters CONFORM to the acceptance specifications. The batch is of high chromatographic purity (≥ 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.

DZL.

Dr. Zhao Liang
Analyst · 19 May 2026 · Zhongxi Research Institute

DGT.

Dr. Guo Tao (QC Manager)
Approved by · 19 May 2026 · Zhongxi Research Institute

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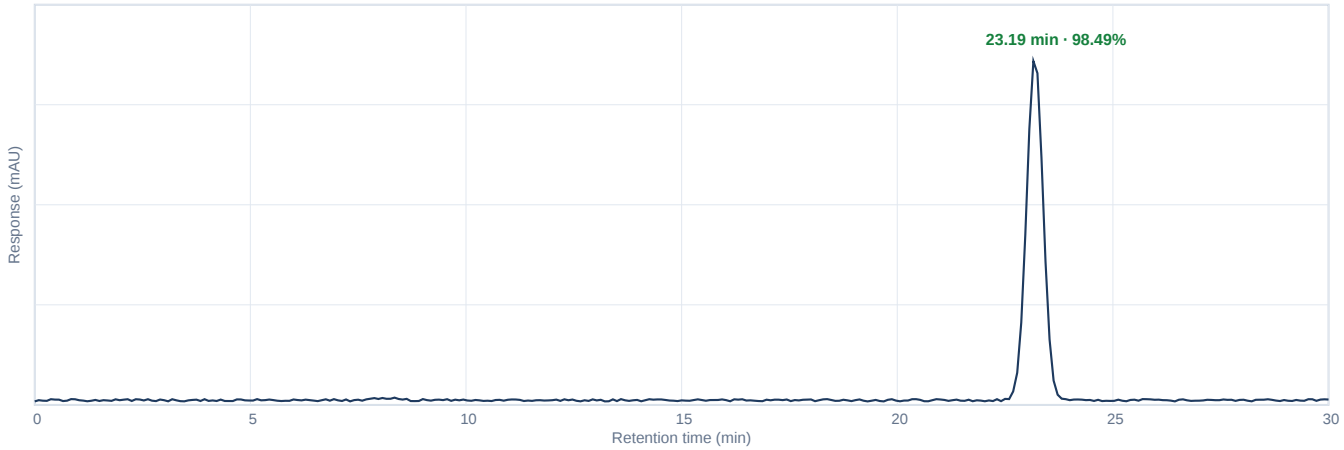
APPENDIX — ANALYTICAL RAW DATA

GHK-Cu 100mg · Lot ZX260512-696 · Cert. ZXR-COA-2026-48673

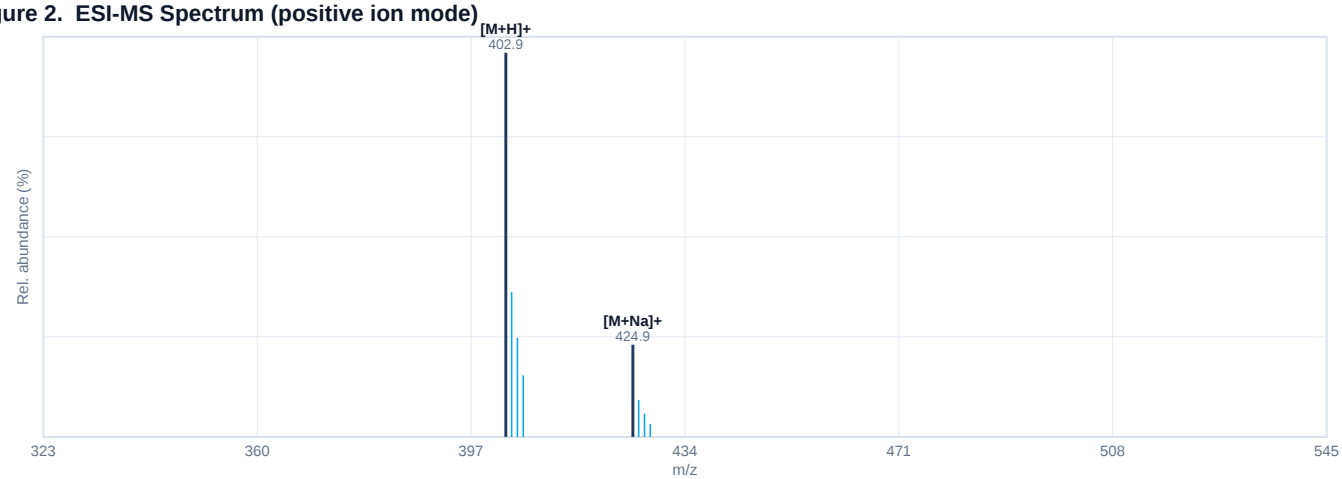
Scan to verify

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



Peak #	RT (min)	Area (µV·s)	Area %	Assignment
1	23.19	913912	98.49	Main (target)
2	8.12	6182	0.68	Impurity / related substance
3	9.41	3533	0.39	Impurity / related substance
4	8.41	641	0.07	Impurity / related substance
5	4.55	512	0.05	Impurity / related substance

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



Interpretation

Identity confirmed by ESI-MS. Observed ions [M+H]+ 402.9, [M+Na]+ 424.9 deconvolute to a neutral monoisotopic-average mass of 401.91 Da (theoretical 401.91 Da; mass error 0 ppm), consistent with GHK-Cu. 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.

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https://www.yjsba.com/jcxm/qita/16188.html
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CERTIFICATE OF ANALYSIS

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

PASS
QC released for dispatch

Scan to verify

LL-37 — 10mg

Antimicrobial Peptide

1. PRODUCT IDENTIFICATION

Synonym	Antimicrobial Peptide	**Label claim**	10mg
Sequence / structure	LLGDFFRKSKEKIGKEFKRIVQRIKDFLRNLVPRTES	**Lot / Batch**	ZX260512-163 / B60739
Mol. formula	C205H340N60O53	**Manufacture date**	18 May 2026
Mol. weight	4493.33 g/mol	**Date of analysis**	21 May 2026
CAS number	154947-66-7	**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 4493.33 Da	4493.30 Da (Δ -7 ppm)	**PASS**
Purity	RP-HPLC, UV 220 nm	≥ 98.0% area	98.25%	**PASS**
Related substances	RP-HPLC	Single ≤1.0 / Total ≤2.0%	0.90 / 1.75%	**PASS**
Water content	Karl Fischer (USP <921>)	≤ 8.0%	1.6%	**PASS**
Counter-ion: acetate	Ion chromatography	Report (3.0–15.0%)	6.7%	**PASS**
Net peptide content	Amino-acid analysis	≥ 80.0%	90.9%	**PASS**
Bacterial endotoxin	LAL kinetic (USP <85>)	< 5.0 EU/mg	0.07 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 (≥ 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 · 21 May 2026 · Zhongxi Research Institute

DGT.

Dr. Guo Tao (QC Manager)
Approved by · 21 May 2026 · Zhongxi Research Institute

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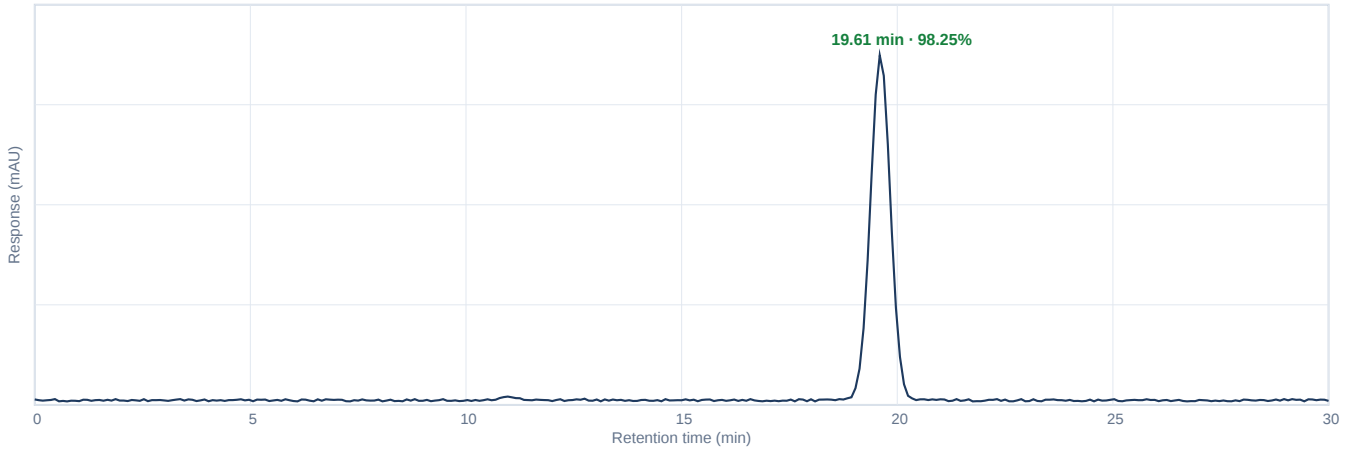
APPENDIX — ANALYTICAL RAW DATA

LL-37 10mg · Lot ZX260512-163 · Cert. ZXR-COA-2026-25120

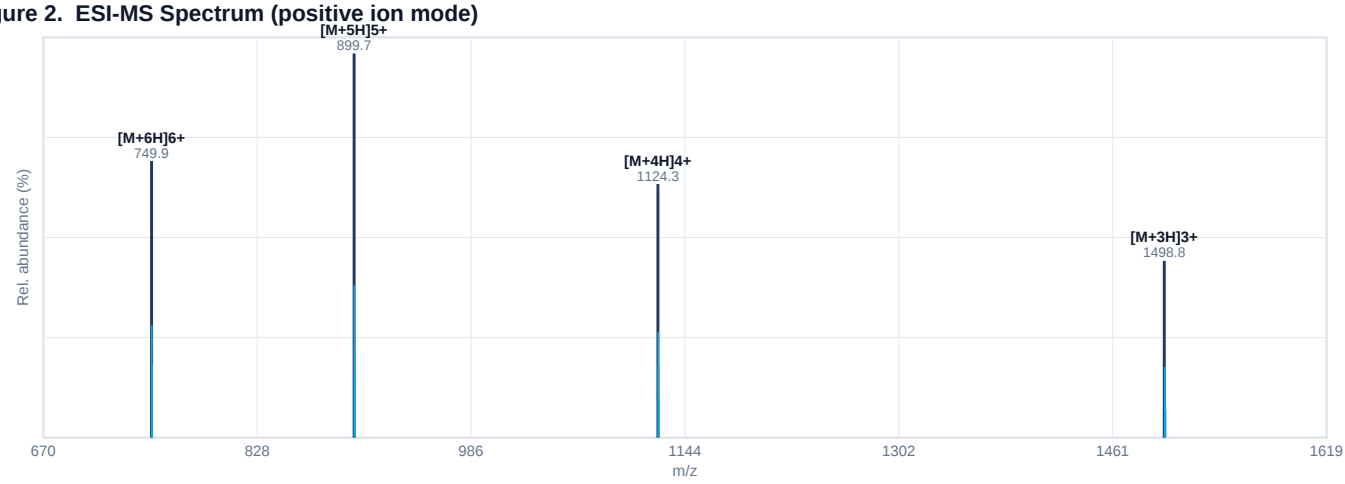
Scan to verify

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



Peak #	RT (min)	Area (μV·s)	Area %	Assignment
1	19.61	1014591	98.25	Main (target)
2	11.07	8420	0.90	Impurity / related substance
3	12.75	1446	0.15	Impurity / related substance

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



Interpretation

Identity confirmed by ESI-MS. Observed ions [M+3H]3+ 1498.8, [M+4H]4+ 1124.3, [M+5H]5+ 899.7, [M+6H]6+ 749.9 deconvolute to a neutral monoisotopic-average mass of 4493.30 Da (theoretical 4493.33 Da; mass error -7 ppm), consistent with LL-37. 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.

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CERTIFICATE OF ANALYSIS

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PASS
QC released for dispatch

Scan to verify

VIP (Vasoactive Intestinal Peptide) — 10mg

Vasoactive Intestinal Peptide (VIP, 28aa, C-terminal amide)

1. PRODUCT IDENTIFICATION

Synonym	Vasoactive Intestinal Peptide (VIP, 28aa, C-terminal amide)	**Label claim**	10mg
Sequence / structure	His-Ser-Asp-Ala-Val-Phe-Thr-Asp-Asn-Tyr-Thr-Arg-Leu-Arg-Lys-Gln-Met-Ala-Val-Lys-Lys-Tyr-Leu-Asn-Ser-Ile-Leu-Asn-NH2	**Lot / Batch**	ZX260512-271 / B49187
Mol. formula	C147H237N43O43S	**Manufacture date**	24 May 2026
Mol. weight	3326.83 g/mol	**Date of analysis**	29 May 2026
CAS number	37221-79-7	**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 3326.83 Da	3326.85 Da (Δ 6 ppm)	PASS
Purity	RP-HPLC, UV 220 nm	≥ 98.0% area	98.59%	PASS
Related substances	RP-HPLC	Single ≤1.0 / Total ≤2.0%	0.89 / 1.41%	PASS
Water content	Karl Fischer (USP <921>)	≤ 8.0%	2.8%	PASS
Counter-ion: acetate	Ion chromatography	Report (3.0–15.0%)	4.6%	PASS
Net peptide content	Amino-acid analysis	≥ 80.0%	90.6%	PASS
Bacterial endotoxin	LAL kinetic (USP <85>)	< 5.0 EU/mg	0.08 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 (≥ 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.

DCJ.

Dr. Chen Jian
Analyst · 29 May 2026 · Zhongxi Research Institute

DLX.

Dr. Lin Xia (QC Manager)
Approved by · 29 May 2026 · Zhongxi Research Institute

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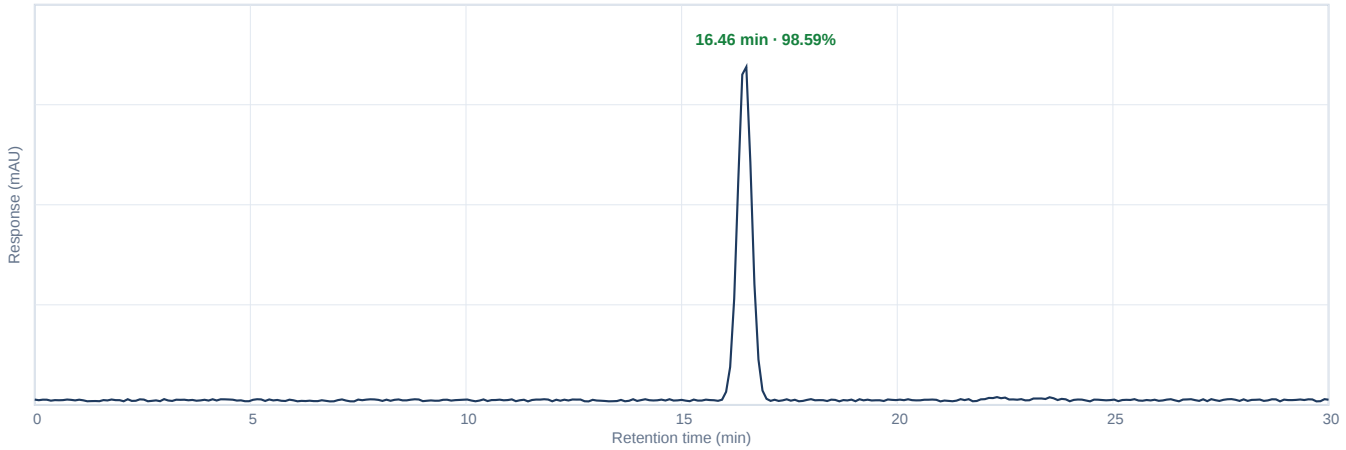
APPENDIX — ANALYTICAL RAW DATA

VIP (Vasoactive Intestinal Peptide) 10mg · Lot ZX260512-271 · Cert. ZXR-COA-2026-82559

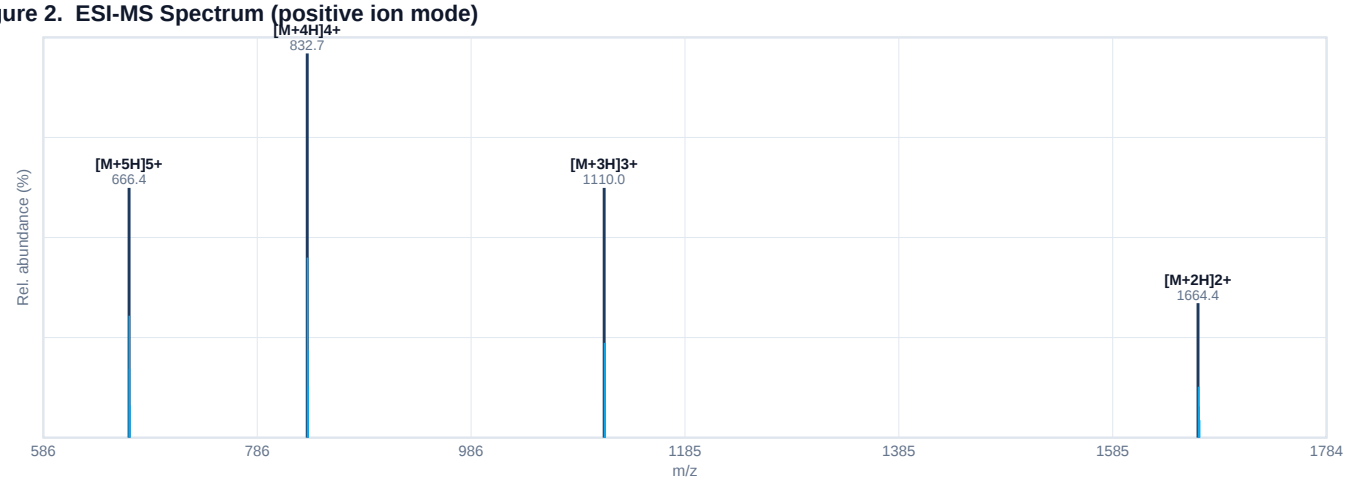
Scan to verify

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



Peak #	RT (min)	Area (μV·s)	Area %	Assignment
1	16.46	1041419	98.59	Main (target)
2	22.33	6630	0.73	Impurity / related substance
3	23.43	6573	0.68	Impurity / related substance

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



Interpretation

Identity confirmed by ESI-MS. Observed ions [M+2H]2+ 1664.4, [M+3H]3+ 1110.0, [M+4H]4+ 832.7, [M+5H]5+ 666.4 deconvolute to a neutral monoisotopic-average mass of 3326.85 Da (theoretical 3326.83 Da; mass error 6 ppm), consistent with VIP (Vasoactive Intestinal Peptide). 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.

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CERTIFICATE OF ANALYSIS

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PASS
QC released for dispatch

Scan to verify

HGH (Somatropin) — 10mg

Recombinant Human Growth Hormone (Somatropin, 191aa)

1. PRODUCT IDENTIFICATION

Synonym	Recombinant Human Growth Hormone (Somatropin, 191aa)	**Label claim**	10mg
Sequence / structure	Single-chain 191-amino-acid polypeptide — sequence identical to human pituitary growth hormone (two disulfide bridges: Cys53–Cys165, Cys182–Cys189)	**Lot / Batch**	ZX260512-567 / B25589
Mol. formula	C990H1528N262O300S7	**Manufacture date**	20 May 2026
Mol. weight	22124.76 g/mol	**Date of analysis**	26 May 2026
CAS number	12629-01-5	**Storage**	−20 °C, dark, desiccated
Salt form	Lyophilised protein (no counter-ion)		

2. ANALYTICAL TEST RESULTS

Test	Method	Specification	Result	Verdict
Appearance	Visual	White lyophilized powder	White to off-white lyophilized powder	**PASS**
Identity (intact mass)	LC-MS (ESI, deconvoluted)	Matches 22124.76 Da	22124.83 Da (Δ 3 ppm)	**PASS**
Identity (peptide map)	Tryptic RP-HPLC-MS	Map matches reference	Conforms	**PASS**
Purity	RP-HPLC C4, UV 214 nm	≥ 98.0% area	98.27%	**PASS**
Monomer content	SE-HPLC (UV 214 nm)	≥ 98.0% monomer	99.37%	**PASS**
Related proteins	RP-HPLC + SE-HPLC	Total ≤ 2.0%	1.73%	**PASS**
Biological potency	Cell-proliferation bioassay	30 IU (±10%)	31.5 IU	**PASS**
Water content	Karl Fischer (USP <921>)	≤ 5.0%	2.5%	**PASS**
Host-cell protein (E. coli)	ELISA	≤ 100 ng/mg	31 ng/mg	**PASS**
Residual host-cell DNA	qPCR	≤ 10 ng/mg	< 0.10 ng/mg	**PASS**
Bacterial endotoxin	LAL kinetic (USP <85>)	< 5.0 EU/mg	0.14 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 (≥ 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.

DZK.

Dr. Zhou Kai
Analyst · 26 May 2026 · Zhongxi Research Institute

DLX.

Dr. Lin Xia (QC Manager)
Approved by · 26 May 2026 · Zhongxi Research Institute

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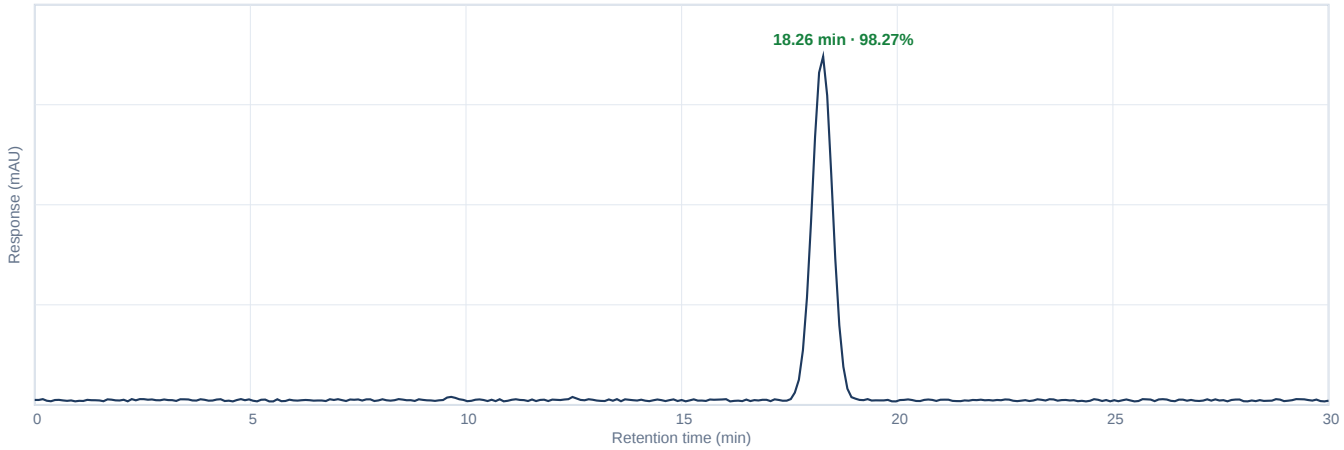
APPENDIX — ANALYTICAL RAW DATA

HGH (Somatropin) 10mg · Lot ZX260512-567 · Cert. ZXR-COA-2026-37719

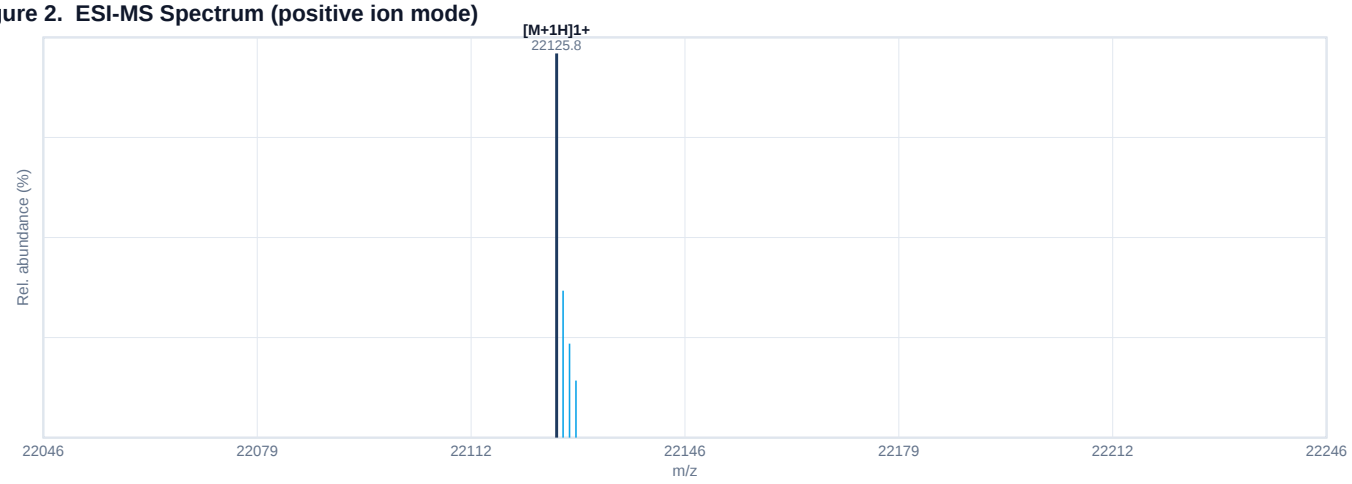
Scan to verify

Figure 1. RP-HPLC Purity Chromatogram — intact somatropin (UV 214 nm)



Peak #	RT (min)	Area (µV·s)	Area %	Assignment
1	18.26	1042877	98.27	Main (target)
2	12.50	8770	0.90	Impurity / related substance
3	9.67	7886	0.83	Impurity / related substance

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



Interpretation

Identity confirmed by ESI-MS. Observed ions [M+1H]1+ 22125.8 deconvolute to a neutral monoisotopic-average mass of 22124.83 Da (theoretical 22124.76 Da; mass error 3 ppm), consistent with HGH (Somatropin). No co-eluting species above 0.5% indicative of misidentification.

Methods — RP-HPLC: Agilent 1260 Infinity II; C4 wide-pore 4.6×250 mm, 5 µm, 300 Å; A: 0.1% TFA in water, B: 0.1% TFA in MeCN; 30–65% B gradient; 0.7 mL/min; 45 °C; UV 214 nm (a C4 wide-pore phase is used because standard C18 is unsuitable for a 22 kDa protein). Purity / monomer by SE-HPLC (TSKgel G2000SWxl, phosphate pH 7.0). Identity by intact-mass ESI-MS (LC-MS) plus tryptic peptide mapping vs the somatropin reference standard. Potency by cell-proliferation bioassay (Nb2 / rat) reported in IU (1 mg ≡ 3 IU). Host-cell protein by ELISA; residual E. coli DNA by qPCR. KF: Metrohm 901. Endotoxin: LAL kinetic. Sterility: USP <71>.

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CERTIFICATE OF ANALYSIS

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PASS
QC released for dispatch

Scan to verify

CJC-1295 (No DAC) — 10mg

CJC-1295 without DAC

1. PRODUCT IDENTIFICATION

Synonym	CJC-1295 without DAC	**Label claim**	10mg
Sequence / structure	Tyr-D-Ala-Asp-Ala-Ile-Phe-Thr-Gln-Ser-Tyr-Arg-Lys-Val-Leu-Ala-Gln-Leu-Ser-Ala-Arg-Lys-Leu-Leu-Gln-Asp-Ile-Leu-Ser-Arg-NH2	**Lot / Batch**	ZX260512-790 / B67863
Mol. formula	C152H252N44O42	**Manufacture date**	1 Jun 2026
Mol. weight	3367.97 g/mol	**Date of analysis**	7 Jun 2026
CAS number	863288-34-0	**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 3367.97 Da	3367.93 Da (Δ -12 ppm)	PASS
Purity	RP-HPLC, UV 220 nm	≥ 98.0% area	99.53%	PASS
Related substances	RP-HPLC	Single ≤1.0 / Total ≤2.0%	0.25 / 0.47%	PASS
Water content	Karl Fischer (USP <921>)	≤ 8.0%	4.2%	PASS
Counter-ion: acetate	Ion chromatography	Report (3.0–15.0%)	9.9%	PASS
Net peptide content	Amino-acid analysis	≥ 80.0%	85.0%	PASS
Bacterial endotoxin	LAL kinetic (USP <85>)	< 5.0 EU/mg	0.02 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 (≥ 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.

DHR.

Dr. Huang Rui
Analyst · 7 Jun 2026 · Zhongxi Research Institute

DGT.

Dr. Guo Tao (QC Manager)
Approved by · 7 Jun 2026 · Zhongxi Research Institute

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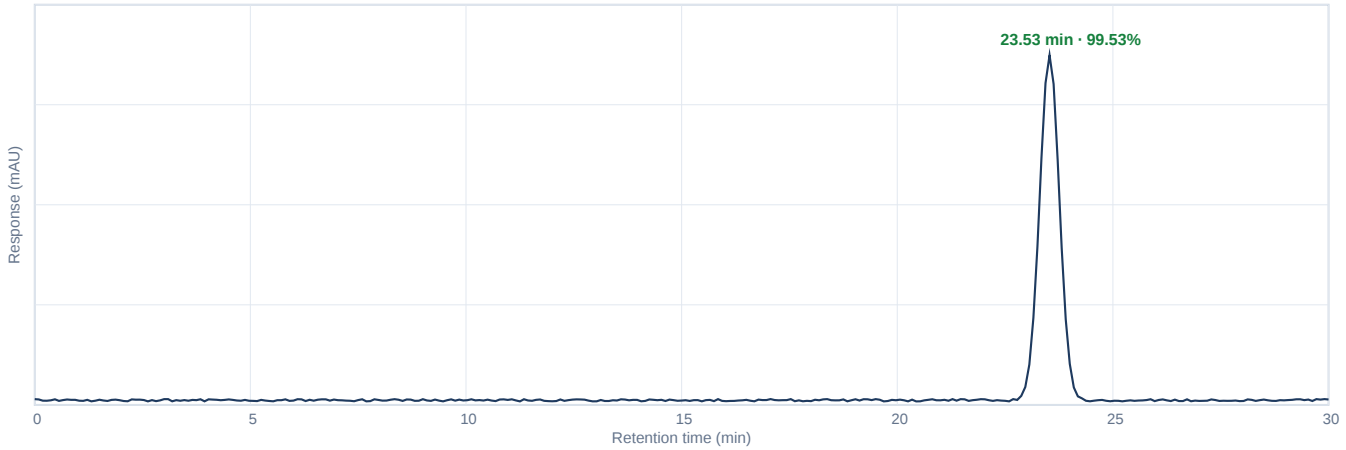
APPENDIX — ANALYTICAL RAW DATA

CJC-1295 (No DAC) 10mg · Lot ZX260512-790 · Cert. ZXR-COA-2026-32548

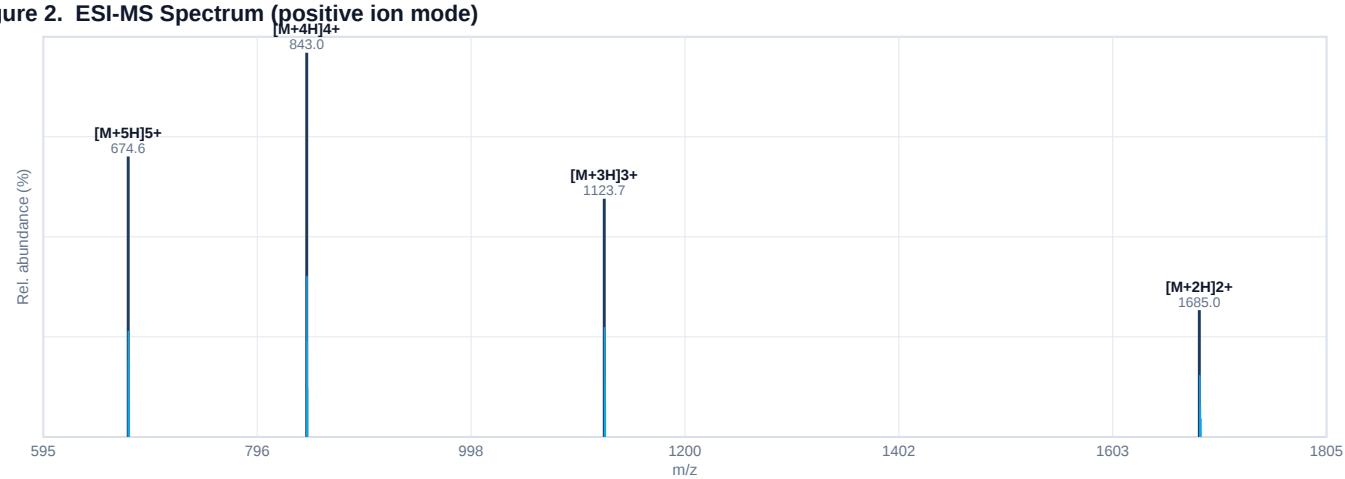
Scan to verify

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



Peak #	RT (min)	Area (µV·s)	Area %	Assignment
1	23.53	987470	99.53	Main (target)
2	13.79	2258	0.22	Impurity / related substance
3	10.88	1447	0.14	Impurity / related substance
4	17.02	963	0.09	Impurity / related substance
5	4.54	215	0.02	Impurity / related substance

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



Interpretation

Identity confirmed by ESI-MS. Observed ions [M+2H]2+ 1685.0, [M+3H]3+ 1123.7, [M+4H]4+ 843.0, [M+5H]5+ 674.6 deconvolute to a neutral monoisotopic-average mass of 3367.93 Da (theoretical 3367.97 Da; mass error -12 ppm), consistent with CJC-1295 (No DAC). 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.

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CERTIFICATE OF ANALYSIS

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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-NH2	**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	≥ 98.0% area	98.49%	**PASS**
Related substances	RP-HPLC	Single ≤1.0 / Total ≤2.0%	0.90 / 1.51%	**PASS**
Water content	Karl Fischer (USP <921>)	≤ 8.0%	4.2%	**PASS**
Counter-ion: acetate	Ion chromatography	Report (3.0–15.0%)	10.8%	**PASS**
Net peptide content	Amino-acid analysis	≥ 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 (≥ 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

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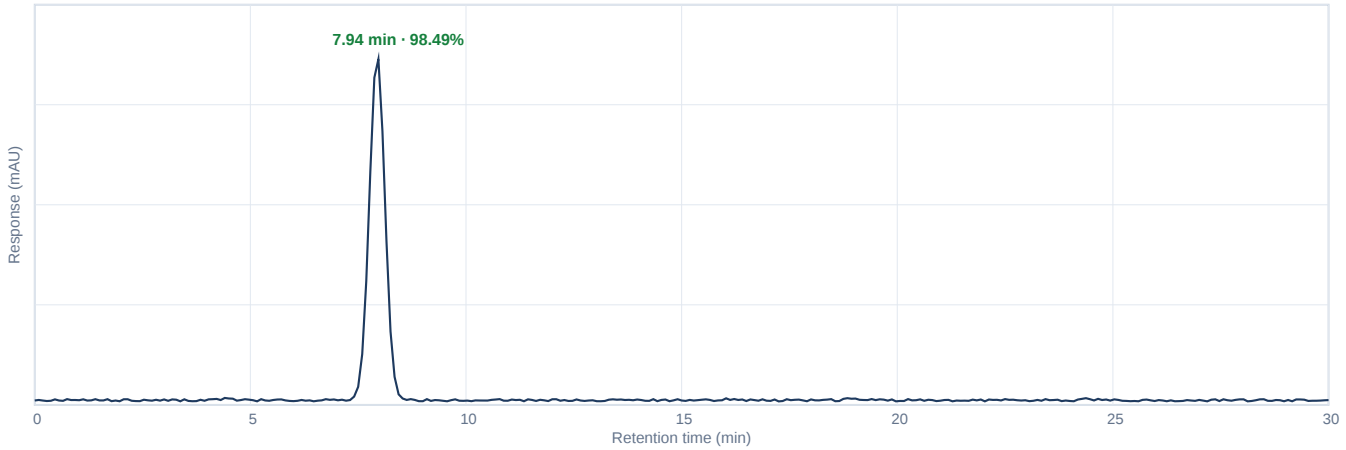
APPENDIX — ANALYTICAL RAW DATA

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

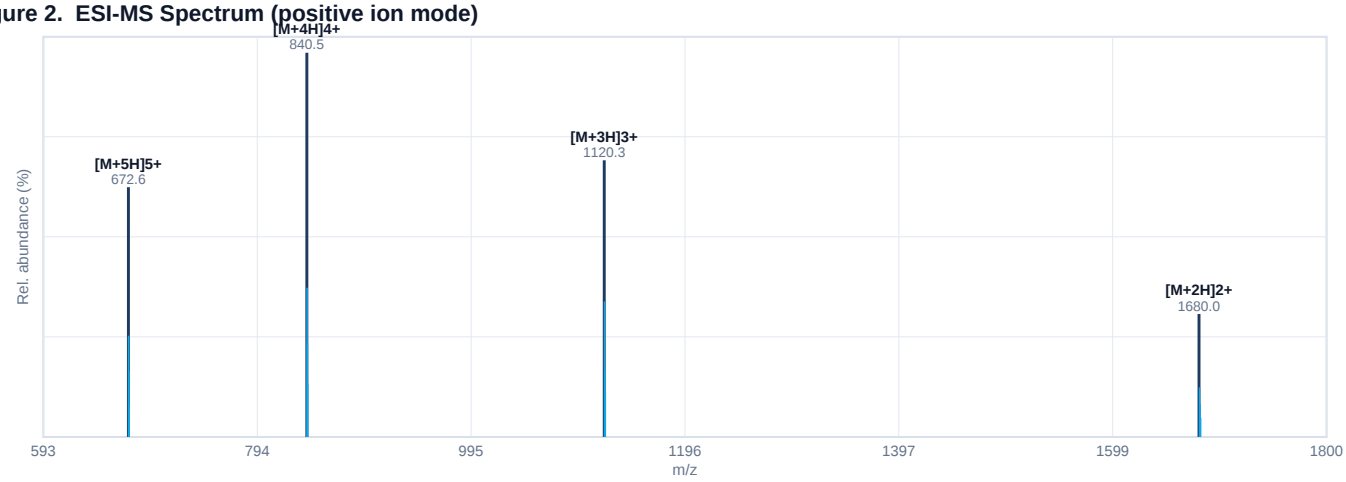
Scan to verify

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.

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CERTIFICATE OF ANALYSIS

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PASS
QC released for dispatch

Scan to verify

Epitalon — 10mg

Epithalon

1. PRODUCT IDENTIFICATION

Synonym	Epithalon	**Label claim**	10mg
Sequence / structure	Ala-Glu-Asp-Gly	**Lot / Batch**	ZX260512-646 / B91069
Mol. formula	C14H22N4O9	**Manufacture date**	25 May 2026
Mol. weight	390.35 g/mol	**Date of analysis**	28 May 2026
CAS number	307297-39-8	**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 390.35 Da	390.35 Da (Δ 0 ppm)	**PASS**
Purity	RP-HPLC, UV 220 nm	≥ 98.0% area	99.30%	**PASS**
Related substances	RP-HPLC	Single ≤1.0 / Total ≤2.0%	0.33 / 0.70%	**PASS**
Water content	Karl Fischer (USP <921>)	≤ 8.0%	2.4%	**PASS**
Counter-ion: acetate	Ion chromatography	Report (3.0–15.0%)	6.8%	**PASS**
Net peptide content	Amino-acid analysis	≥ 80.0%	90.0%	**PASS**
Bacterial endotoxin	LAL kinetic (USP <85>)	< 5.0 EU/mg	0.05 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 (≥ 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 · 28 May 2026 · Zhongxi Research Institute

DFH.

Dr. Fang Hong (QC Manager)
Approved by · 28 May 2026 · Zhongxi Research Institute

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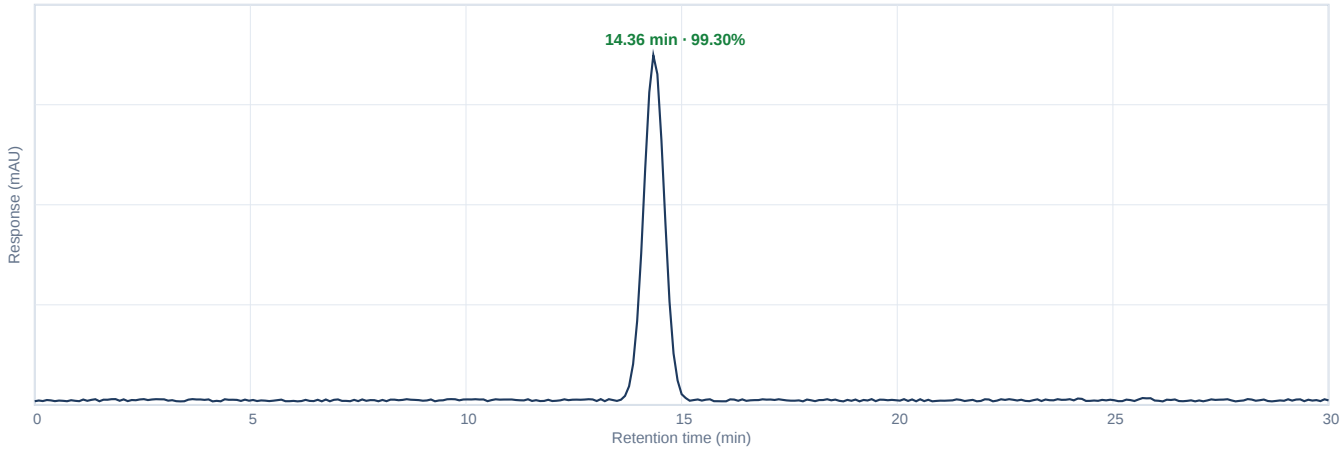
APPENDIX — ANALYTICAL RAW DATA

Epitalon 10mg · Lot ZX260512-646 · Cert. ZXR-COA-2026-73883

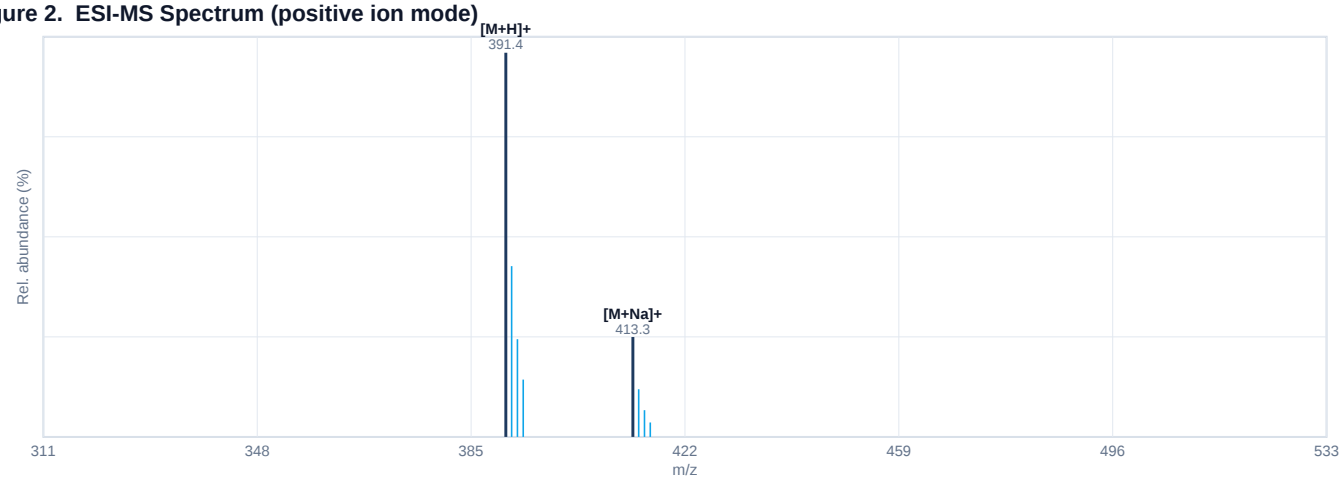
Scan to verify

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



Peak #	RT (min)	Area (µV·s)	Area %	Assignment
1	14.36	896768	99.30	Main (target)
2	25.79	3037	0.33	Impurity / related substance
3	24.08	2087	0.23	Impurity / related substance
4	25.65	1155	0.11	Impurity / related substance
5	21.03	203	0.02	Impurity / related substance

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



Interpretation

Identity confirmed by ESI-MS. Observed ions [M+H]+ 391.4, [M+Na]+ 413.3 deconvolute to a neutral monoisotopic-average mass of 390.35 Da (theoretical 390.35 Da; mass error 0 ppm), consistent with Epitalon. 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.

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CERTIFICATE OF ANALYSIS

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

PASS
QC released for dispatch

Scan to verify

Epitalon — 50mg

Epithalon

1. PRODUCT IDENTIFICATION

Synonym	Epithalon	**Label claim**	50mg
Sequence / structure	Ala-Glu-Asp-Gly	**Lot / Batch**	ZX260512-130 / B37076
Mol. formula	C14H22N4O9	**Manufacture date**	28 May 2026
Mol. weight	390.35 g/mol	**Date of analysis**	3 Jun 2026
CAS number	307297-39-8	**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 390.35 Da	390.35 Da (Δ 0 ppm)	**PASS**
Purity	RP-HPLC, UV 220 nm	≥ 98.0% area	99.04%	**PASS**
Related substances	RP-HPLC	Single ≤1.0 / Total ≤2.0%	0.52 / 0.96%	**PASS**
Water content	Karl Fischer (USP <921>)	≤ 8.0%	1.5%	**PASS**
Counter-ion: acetate	Ion chromatography	Report (3.0–15.0%)	5.9%	**PASS**
Net peptide content	Amino-acid analysis	≥ 80.0%	90.9%	**PASS**
Bacterial endotoxin	LAL kinetic (USP <85>)	< 5.0 EU/mg	0.16 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 (≥ 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.

DZK.

Dr. Zhou Kai
Analyst · 3 Jun 2026 · Zhongxi Research Institute

DLX.

Dr. Lin Xia (QC Manager)
Approved by · 3 Jun 2026 · Zhongxi Research Institute

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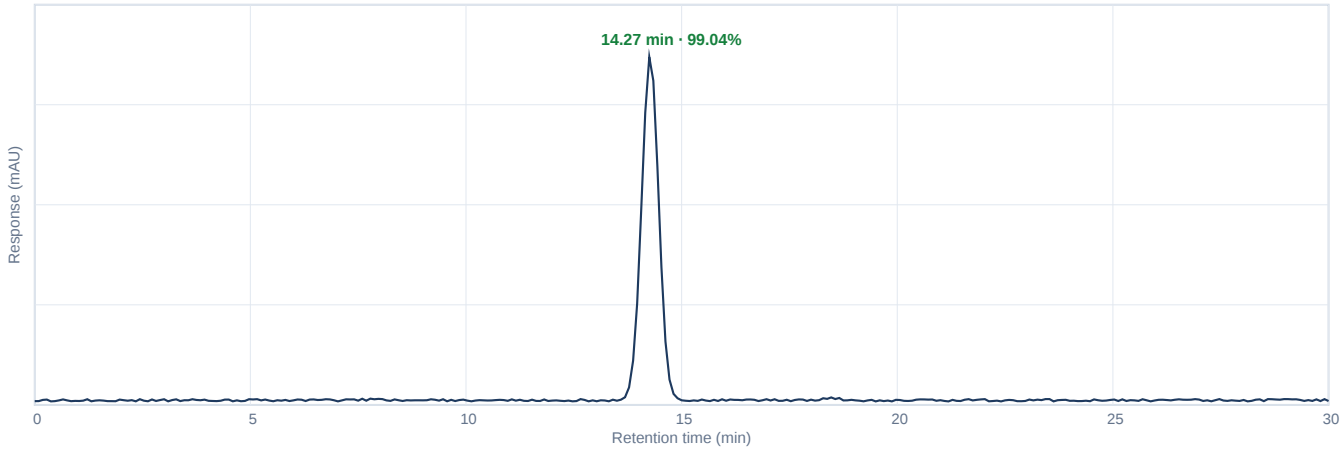
APPENDIX — ANALYTICAL RAW DATA

Epitalon 50mg · Lot ZX260512-130 · Cert. ZXR-COA-2026-85942

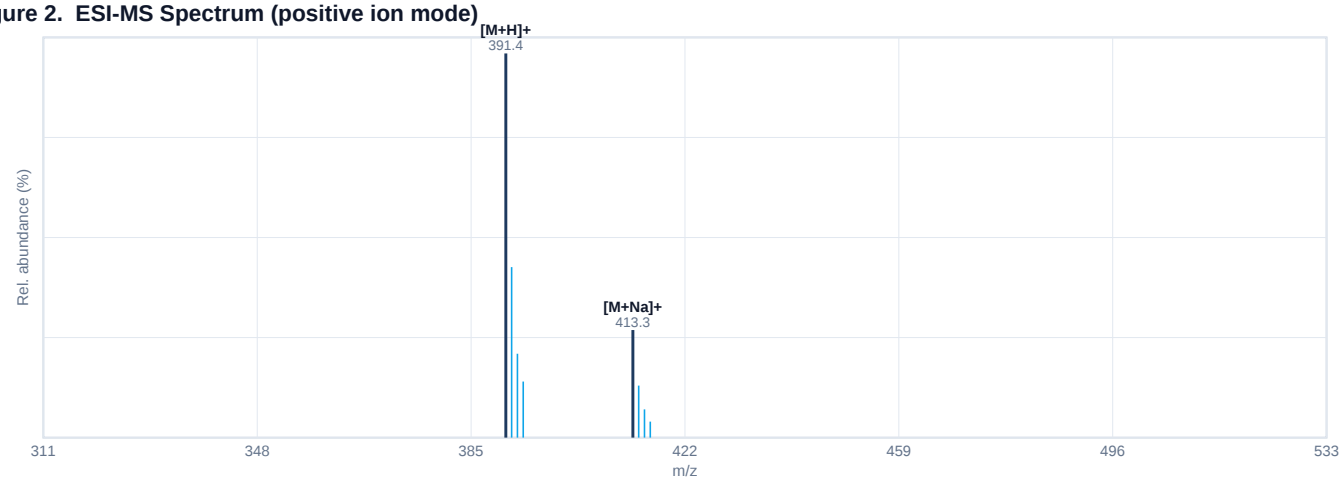
Scan to verify

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



Peak #	RT (min)	Area (μV·s)	Area %	Assignment
1	14.27	932221	99.04	Main (target)
2	18.50	5246	0.52	Impurity / related substance
3	7.83	2442	0.24	Impurity / related substance

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



Interpretation

Identity confirmed by ESI-MS. Observed ions [M+H]+ 391.4, [M+Na]+ 413.3 deconvolute to a neutral monoisotopic-average mass of 390.35 Da (theoretical 390.35 Da; mass error 0 ppm), consistent with Epitalon. 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.

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CERTIFICATE OF ANALYSIS

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

PASS
QC released for dispatch

Scan to verify

FOXO4-DRI — 10mg

FOXO4-D-Retro-Inverso

1. PRODUCT IDENTIFICATION

Synonym	FOXO4-D-Retro-Inverso	**Label claim**	10mg
Sequence / structure	Retro-inverso D-amino-acid construct	**Lot / Batch**	ZX260512-422 / B36910
Mol. formula	C228H388N86O64	**Manufacture date**	23 May 2026
Mol. weight	5358.05 g/mol	**Date of analysis**	4 Jun 2026
CAS number	2460055-10-9	**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 5358.05 Da	5358.05 Da (Δ 0 ppm)	**PASS**
Purity	RP-HPLC, UV 220 nm	≥ 98.0% area	99.81%	**PASS**
Related substances	RP-HPLC	Single ≤1.0 / Total ≤2.0%	0.09 / 0.19%	**PASS**
Water content	Karl Fischer (USP <921>)	≤ 8.0%	1.8%	**PASS**
Counter-ion: acetate	Ion chromatography	Report (3.0–15.0%)	8.1%	**PASS**
Net peptide content	Amino-acid analysis	≥ 80.0%	88.4%	**PASS**
Bacterial endotoxin	LAL kinetic (USP <85>)	< 5.0 EU/mg	0.02 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 (≥ 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.

DSY.

Dr. Sun Yan
Analyst · 4 Jun 2026 · Zhongxi Research Institute

DFH.

Dr. Fang Hong (QC Manager)
Approved by · 4 Jun 2026 · Zhongxi Research Institute

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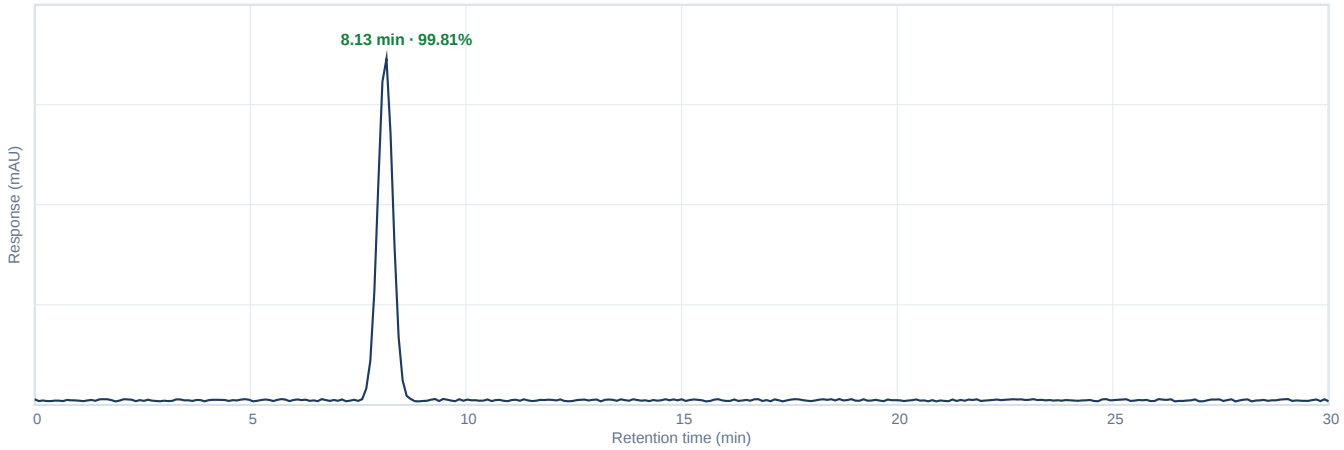
APPENDIX — ANALYTICAL RAW DATA

FOXO4-DRI 10mg · Lot ZX260512-422 · Cert. ZXR-COA-2026-98003

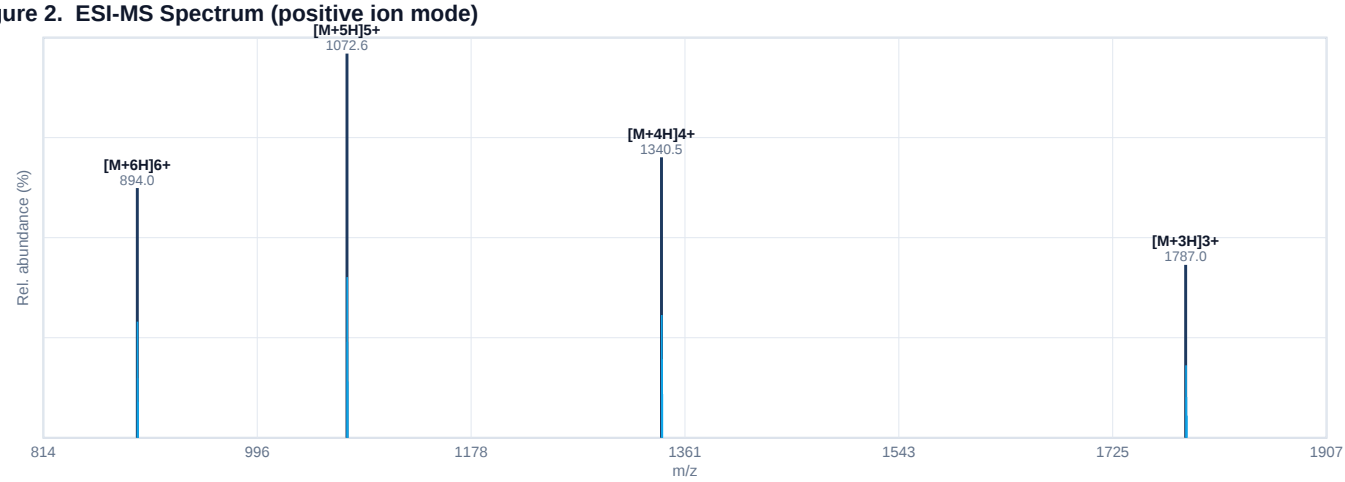
Scan to verify

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



Peak #	RT (min)	Area (µV·s)	Area %	Assignment
1	8.13	996263	99.81	Main (target)
2	9.47	897	0.09	Impurity / related substance
3	18.70	790	0.08	Impurity / related substance
4	19.98	185	0.02	Impurity / related substance

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



Interpretation

Identity confirmed by ESI-MS. Observed ions [M+3H]3+ 1787.0, [M+4H]4+ 1340.5, [M+5H]5+ 1072.6, [M+6H]6+ 894.0 deconvolute to a neutral monoisotopic-average mass of 5358.05 Da (theoretical 5358.05 Da; mass error 0 ppm), consistent with FOXO4-DRI. 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.

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CERTIFICATE OF ANALYSIS

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

PASS
QC released for dispatch

Scan to verify

Kisspeptin-10 — 5mg

Kisspeptin

1. PRODUCT IDENTIFICATION

Synonym	Kisspeptin	**Label claim**	5mg
Sequence / structure	Tyr-Asn-Trp-Asn-Ser-Phe-Gly-Leu-Arg-Phe-NH2	**Lot / Batch**	ZX260512-699 / B40441
Mol. formula	C63H83N17O14	**Manufacture date**	29 May 2026
Mol. weight	1302.44 g/mol	**Date of analysis**	7 Jun 2026
CAS number	374675-21-5	**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 1302.44 Da	1302.46 Da (Δ 15 ppm)	**PASS**
Purity	RP-HPLC, UV 220 nm	≥ 98.0% area	99.03%	**PASS**
Related substances	RP-HPLC	Single ≤1.0 / Total ≤2.0%	0.49 / 0.97%	**PASS**
Water content	Karl Fischer (USP <921>)	≤ 8.0%	2.4%	**PASS**
Counter-ion: acetate	Ion chromatography	Report (3.0–15.0%)	11.0%	**PASS**
Net peptide content	Amino-acid analysis	≥ 80.0%	85.2%	**PASS**
Bacterial endotoxin	LAL kinetic (USP <85>)	< 5.0 EU/mg	0.05 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 (≥ 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.

DZK.

Dr. Zhou Kai
Analyst · 7 Jun 2026 · Zhongxi Research Institute

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Dr. Lin Xia (QC Manager)
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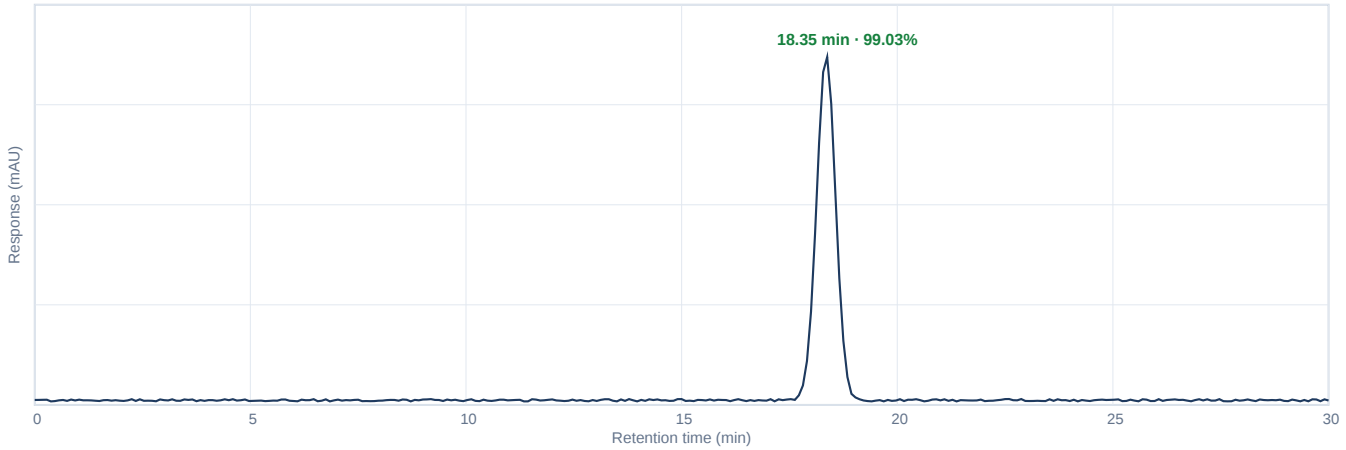
APPENDIX — ANALYTICAL RAW DATA

Kisspeptin-10 5mg · Lot ZX260512-699 · Cert. ZXR-COA-2026-25601

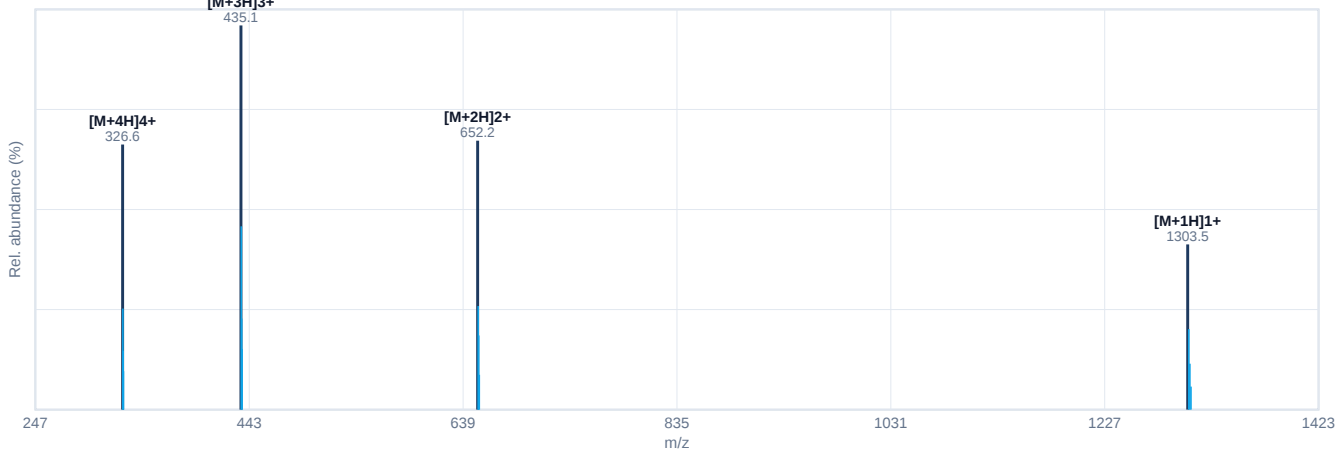
Scan to verify

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



Peak #	RT (min)	Area (µV·s)	Area %	Assignment
1	18.35	1038885	99.03	Main (target)
2	22.53	5176	0.49	Impurity / related substance
3	23.49	364	0.04	Impurity / related substance

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



Interpretation

Identity confirmed by ESI-MS. Observed ions [M+1H]1+ 1303.5, [M+2H]2+ 652.2, [M+3H]3+ 435.1, [M+4H]4+ 326.6 deconvolute to a neutral monoisotopic-average mass of 1302.46 Da (theoretical 1302.44 Da; mass error 15 ppm), consistent with Kisspeptin-10. 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.

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CERTIFICATE OF ANALYSIS

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

PASS
QC released for dispatch

Scan to verify

Kisspeptin-10 — 10mg

Kisspeptin

1. PRODUCT IDENTIFICATION

Synonym	Kisspeptin	**Label claim**	10mg
Sequence / structure	Tyr-Asn-Trp-Asn-Ser-Phe-Gly-Leu-Arg-Phe-NH2	**Lot / Batch**	ZX260512-807 / B40329
Mol. formula	C63H83N17O14	**Manufacture date**	27 May 2026
Mol. weight	1302.44 g/mol	**Date of analysis**	4 Jun 2026
CAS number	374675-21-5	**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 1302.44 Da	1302.43 Da (Δ -8 ppm)	**PASS**
Purity	RP-HPLC, UV 220 nm	≥ 98.0% area	99.81%	**PASS**
Related substances	RP-HPLC	Single ≤1.0 / Total ≤2.0%	0.09 / 0.19%	**PASS**
Water content	Karl Fischer (USP <921>)	≤ 8.0%	3.5%	**PASS**
Counter-ion: acetate	Ion chromatography	Report (3.0–15.0%)	10.9%	**PASS**
Net peptide content	Amino-acid analysis	≥ 80.0%	84.5%	**PASS**
Bacterial endotoxin	LAL kinetic (USP <85>)	< 5.0 EU/mg	0.13 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 (≥ 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.

DZK.

Dr. Zhou Kai
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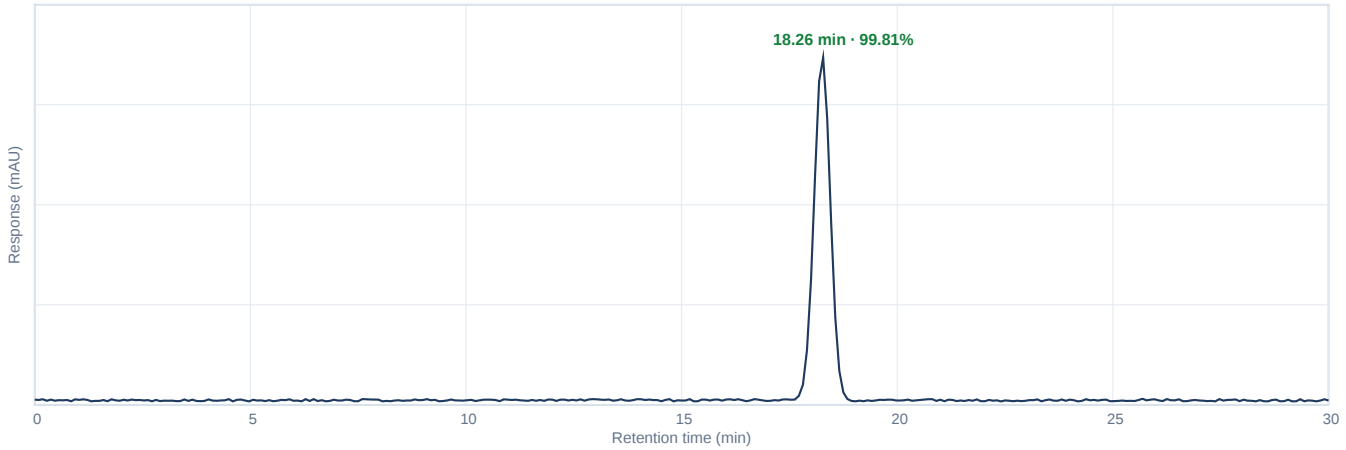
APPENDIX — ANALYTICAL RAW DATA

Kisspeptin-10 10mg · Lot ZX260512-807 · Cert. ZXR-COA-2026-17948

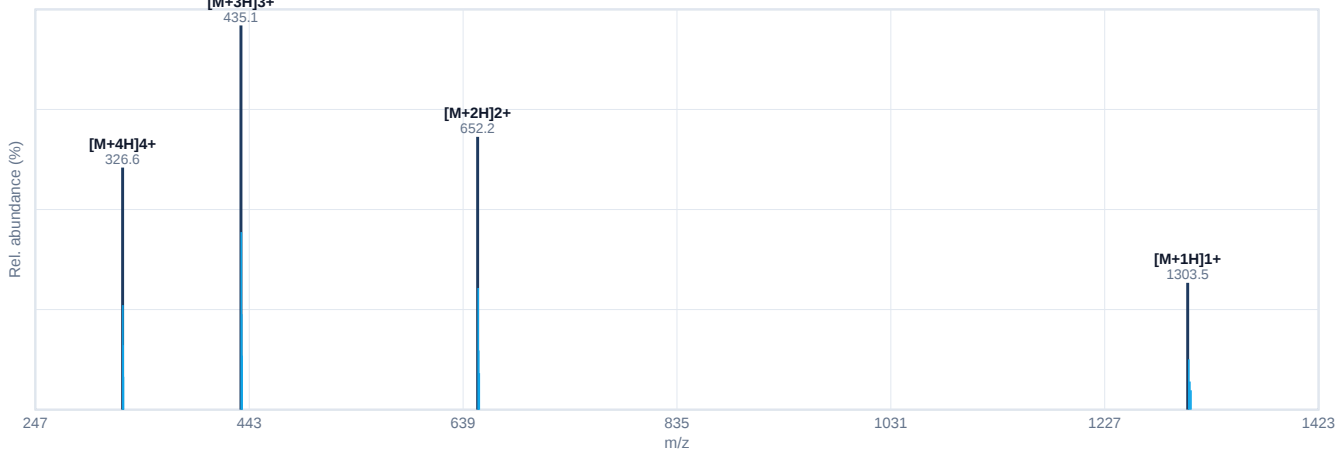
Scan to verify

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



Peak #	RT (min)	Area (µV·s)	Area %	Assignment
1	18.26	1021574	99.81	Main (target)
2	19.76	906	0.09	Impurity / related substance
3	25.75	920	0.09	Impurity / related substance

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



Interpretation

Identity confirmed by ESI-MS. Observed ions [M+1H]1+ 1303.5, [M+2H]2+ 652.2, [M+3H]3+ 435.1, [M+4H]4+ 326.6 deconvolute to a neutral monoisotopic-average mass of 1302.43 Da (theoretical 1302.44 Da; mass error -8 ppm), consistent with Kisspeptin-10. 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.

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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 — 10mg

Tesamorelin Acetate

1. PRODUCT IDENTIFICATION

Synonym	Tesamorelin Acetate	**Label claim**	10mg
Sequence / structure	trans-3-Hexenoyl-[Sermorelin(1-29)]-NH2	**Lot / Batch**	ZX260512-259 / B53972
Mol. formula	C221H366N72O67S	**Manufacture date**	20 May 2026
Mol. weight	5135.89 g/mol	**Date of analysis**	27 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	5135.85 Da (Δ -8 ppm)	**PASS**
Purity	RP-HPLC, UV 220 nm	≥ 98.0% area	99.06%	**PASS**
Related substances	RP-HPLC	Single ≤1.0 / Total ≤2.0%	0.46 / 0.94%	**PASS**
Water content	Karl Fischer (USP <921>)	≤ 8.0%	1.1%	**PASS**
Counter-ion: acetate	Ion chromatography	Report (3.0–15.0%)	7.7%	**PASS**
Net peptide content	Amino-acid analysis	≥ 80.0%	90.5%	**PASS**
Bacterial endotoxin	LAL kinetic (USP <85>)	< 5.0 EU/mg	0.06 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 (≥ 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.

DXP.

Dr. Xu Ping
Analyst · 27 May 2026 · Zhongxi Research Institute

DFH.

Dr. Fang Hong (QC Manager)
Approved by · 27 May 2026 · Zhongxi Research Institute

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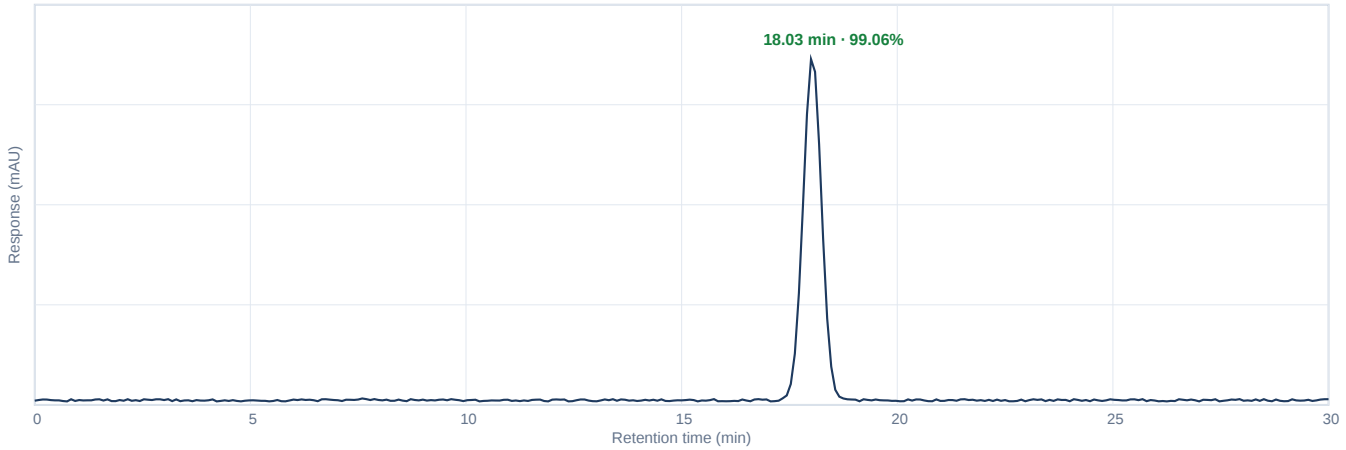
APPENDIX — ANALYTICAL RAW DATA

Tesamorelin 10mg · Lot ZX260512-259 · Cert. ZXR-COA-2026-83033

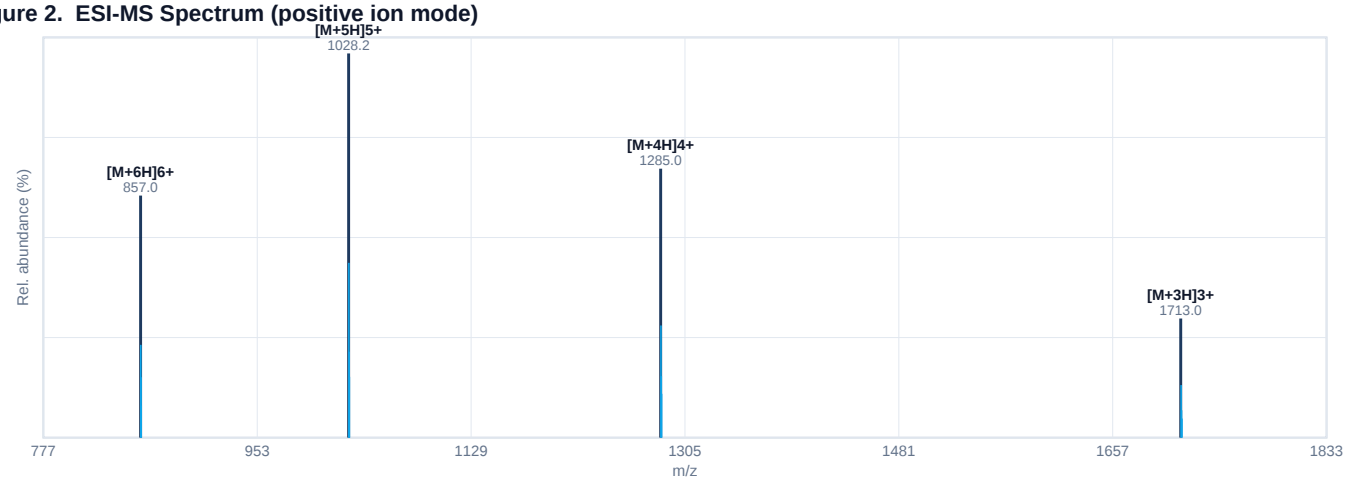
Scan to verify

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



Peak #	RT (min)	Area (μV·s)	Area %	Assignment
1	18.03	1009314	99.06	Main (target)
2	12.70	4867	0.46	Impurity / related substance
3	7.60	4135	0.38	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 5135.85 Da (theoretical 5135.89 Da; mass error -8 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.

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CERTIFICATE OF ANALYSIS

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

PASS
QC released for dispatch

Scan to verify

Ipamorelin — 10mg

Ipamorelin Acetate

1. PRODUCT IDENTIFICATION

Synonym	Ipamorelin Acetate	**Label claim**	10mg
Sequence / structure	Aib-His-D-2-Nal-D-Phe-Lys-NH2	**Lot / Batch**	ZX260512-558 / B48695
Mol. formula	C38H49N9O5	**Manufacture date**	26 May 2026
Mol. weight	711.85 g/mol	**Date of analysis**	8 Jun 2026
CAS number	170851-70-4	**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 711.85 Da	711.85 Da (Δ 0 ppm)	**PASS**
Purity	RP-HPLC, UV 220 nm	≥ 98.0% area	99.50%	**PASS**
Related substances	RP-HPLC	Single ≤1.0 / Total ≤2.0%	0.30 / 0.50%	**PASS**
Water content	Karl Fischer (USP <921>)	≤ 8.0%	1.0%	**PASS**
Counter-ion: acetate	Ion chromatography	Report (3.0–15.0%)	10.5%	**PASS**
Net peptide content	Amino-acid analysis	≥ 80.0%	86.7%	**PASS**
Bacterial endotoxin	LAL kinetic (USP <85>)	< 5.0 EU/mg	0.08 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 (≥ 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.

DSY.

Dr. Sun Yan
Analyst · 8 Jun 2026 · Zhongxi Research Institute

DGT.

Dr. Guo Tao (QC Manager)
Approved by · 8 Jun 2026 · Zhongxi Research Institute

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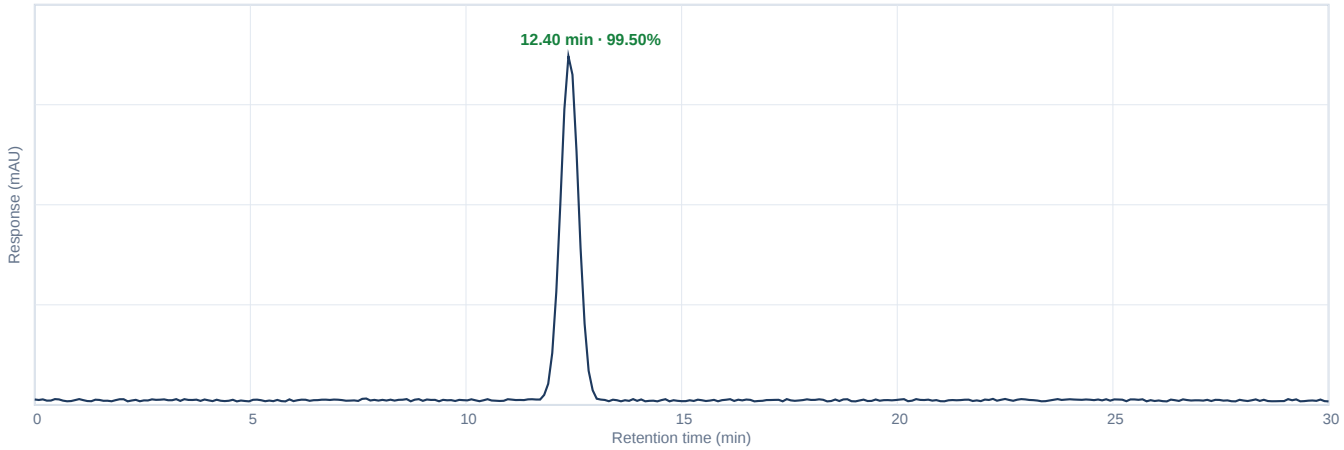
APPENDIX — ANALYTICAL RAW DATA

Ipamorelin 10mg · Lot ZX260512-558 · Cert. ZXR-COA-2026-80143

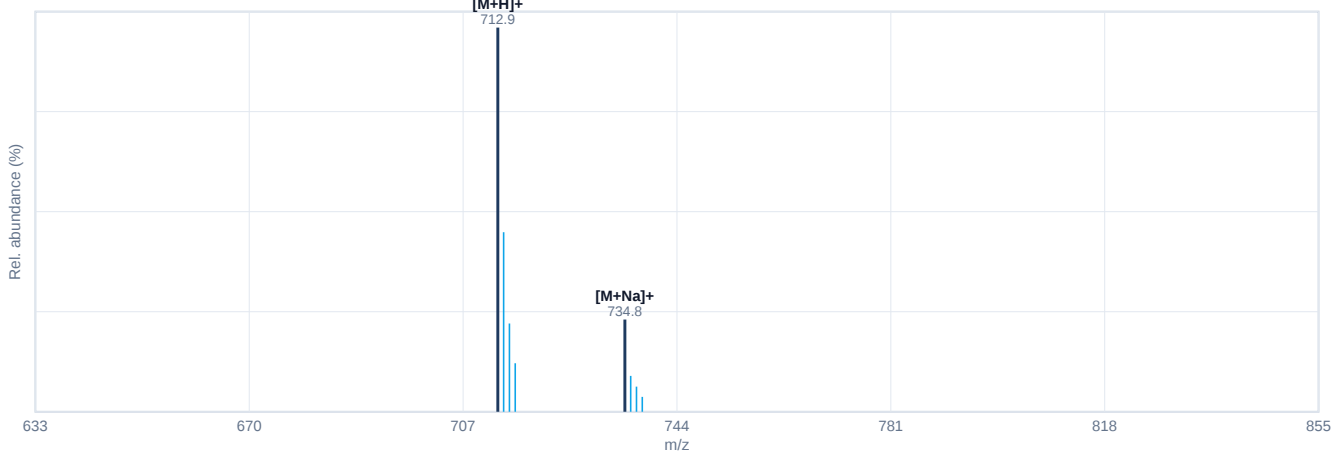
Scan to verify

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



Peak #	RT (min)	Area (µV·s)	Area %	Assignment
1	12.40	899648	99.50	Main (target)
2	22.40	2547	0.27	Impurity / related substance
3	7.77	1733	0.19	Impurity / related substance
4	21.58	397	0.04	Impurity / related substance

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



Interpretation

Identity confirmed by ESI-MS. Observed ions [M+H]+ 712.9, [M+Na]+ 734.8 deconvolute to a neutral monoisotopic-average mass of 711.85 Da (theoretical 711.85 Da; mass error 0 ppm), consistent with Ipamorelin. 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.

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CERTIFICATE OF ANALYSIS

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PASS
QC released for dispatch

Scan to verify

DSIP — 10mg

Delta Sleep-Inducing Peptide

1. PRODUCT IDENTIFICATION

Synonym	Delta Sleep-Inducing Peptide	**Label claim**	10mg
Sequence / structure	Trp-Ala-Gly-Gly-Asp-Ala-Ser-Gly-Glu	**Lot / Batch**	ZX260512-179 / B98983
Mol. formula	C35H48N10O15	**Manufacture date**	14 May 2026
Mol. weight	848.81 g/mol	**Date of analysis**	17 May 2026
CAS number	62568-57-4	**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 848.81 Da	848.82 Da (Δ 12 ppm)	**PASS**
Purity	RP-HPLC, UV 220 nm	≥ 98.0% area	99.66%	**PASS**
Related substances	RP-HPLC	Single ≤1.0 / Total ≤2.0%	0.24 / 0.34%	**PASS**
Water content	Karl Fischer (USP <921>)	≤ 8.0%	3.7%	**PASS**
Counter-ion: acetate	Ion chromatography	Report (3.0–15.0%)	7.9%	**PASS**
Net peptide content	Amino-acid analysis	≥ 80.0%	87.4%	**PASS**
Bacterial endotoxin	LAL kinetic (USP <85>)	< 5.0 EU/mg	0.13 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 (≥ 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 · 17 May 2026 · Zhongxi Research Institute

DFH.

Dr. Fang Hong (QC Manager)
Approved by · 17 May 2026 · Zhongxi Research Institute

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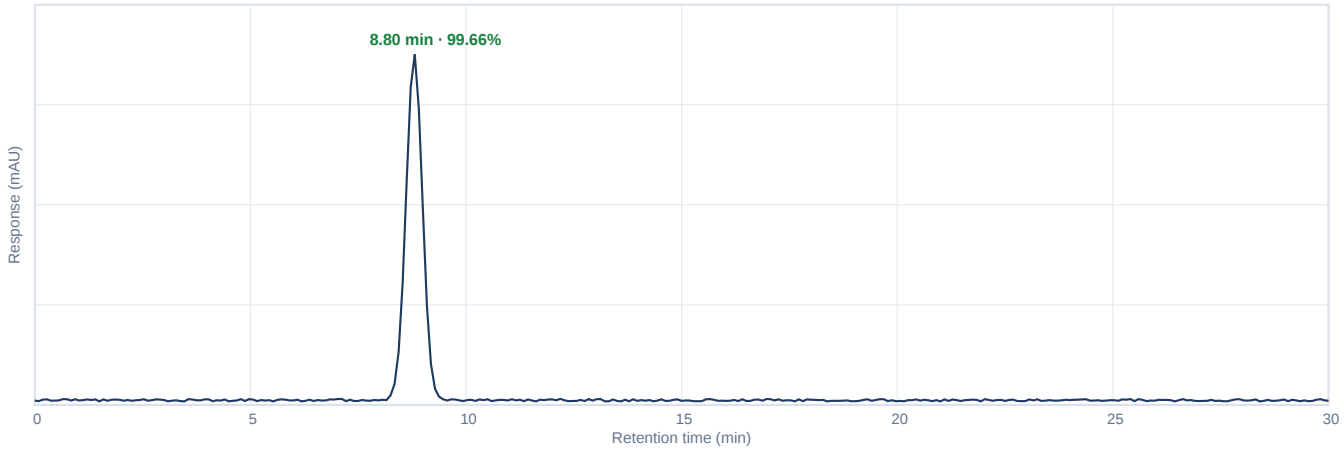
APPENDIX — ANALYTICAL RAW DATA

DSIP 10mg · Lot ZX260512-179 · Cert. ZXR-COA-2026-13717

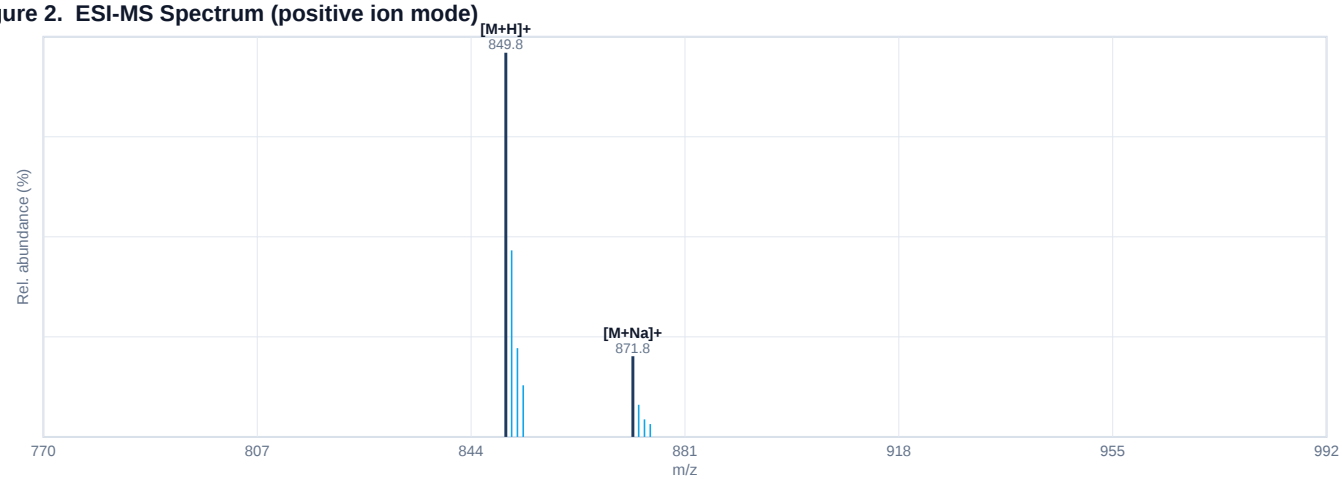
Scan to verify

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



Peak #	RT (min)	Area (µV·s)	Area %	Assignment
1	8.80	991546	99.66	Main (target)
2	12.15	1168	0.11	Impurity / related substance
3	7.11	843	0.09	Impurity / related substance
4	16.93	743	0.07	Impurity / related substance
5	25.70	649	0.07	Impurity / related substance

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



Interpretation

Identity confirmed by ESI-MS. Observed ions [M+H]+ 849.8, [M+Na]+ 871.8 deconvolute to a neutral monoisotopic-average mass of 848.82 Da (theoretical 848.81 Da; mass error 12 ppm), consistent with DSIP. 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.

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CERTIFICATE OF ANALYSIS

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PASS
QC released for dispatch

Scan to verify

Pinealon — 20mg

Pineal Peptide

1. PRODUCT IDENTIFICATION

Synonym	Pineal Peptide	**Label claim**	20mg
Sequence / structure	Glu-Asp-Arg	**Lot / Batch**	ZX260512-339 / B89214
Mol. formula	C15H26N6O8	**Manufacture date**	22 May 2026
Mol. weight	418.40 g/mol	**Date of analysis**	1 Jun 2026
CAS number	No CAS assigned	**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 418.40 Da	418.40 Da (Δ 0 ppm)	**PASS**
Purity	RP-HPLC, UV 220 nm	≥ 98.0% area	99.31%	**PASS**
Related substances	RP-HPLC	Single ≤1.0 / Total ≤2.0%	0.42 / 0.69%	**PASS**
Water content	Karl Fischer (USP <921>)	≤ 8.0%	3.8%	**PASS**
Counter-ion: acetate	Ion chromatography	Report (3.0–15.0%)	5.4%	**PASS**
Net peptide content	Amino-acid analysis	≥ 80.0%	89.2%	**PASS**
Bacterial endotoxin	LAL kinetic (USP <85>)	< 5.0 EU/mg	0.02 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 (≥ 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.

DHR.

Dr. Huang Rui
Analyst · 1 Jun 2026 · Zhongxi Research Institute

DLX.

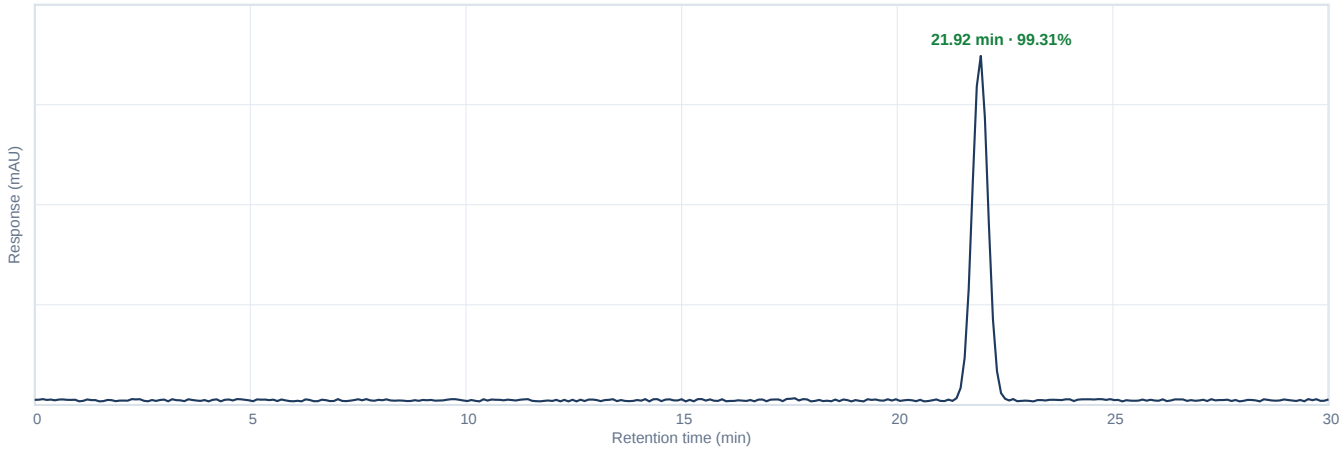
Dr. Lin Xia (QC Manager)
Approved by · 1 Jun 2026 · Zhongxi Research Institute

APPENDIX — ANALYTICAL RAW DATA

Pinealon 20mg · Lot ZX260512-339 · Cert. ZXR-COA-2026-87777

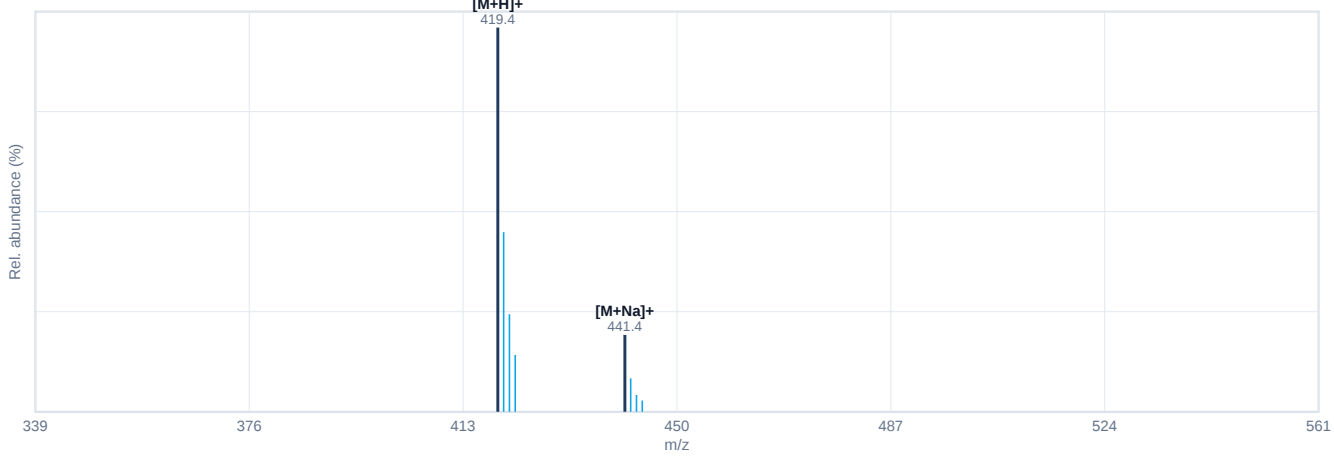
Scan to verify

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



Peak #	RT (min)	Area (µV·s)	Area %	Assignment
1	21.92	981385	99.31	Main (target)
2	17.60	3648	0.37	Impurity / related substance
3	4.71	2715	0.27	Impurity / related substance
4	10.76	464	0.05	Impurity / related substance

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



Interpretation

Identity confirmed by ESI-MS. Observed ions [M+H]+ 419.4, [M+Na]+ 441.4 deconvolute to a neutral monoisotopic-average mass of 418.40 Da (theoretical 418.40 Da; mass error 0 ppm), consistent with Pinealon. 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.

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CERTIFICATE OF ANALYSIS

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PASS
QC released for dispatch

Scan to verify

Pinealon — 50mg

Pineal Peptide

1. PRODUCT IDENTIFICATION

Synonym	Pineal Peptide	**Label claim**	50mg
Sequence / structure	Glu-Asp-Arg	**Lot / Batch**	ZX260512-315 / B21181
Mol. formula	C15H26N6O8	**Manufacture date**	23 May 2026
Mol. weight	418.40 g/mol	**Date of analysis**	29 May 2026
CAS number	No CAS assigned	**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 418.40 Da	418.40 Da (Δ 0 ppm)	**PASS**
Purity	RP-HPLC, UV 220 nm	≥ 98.0% area	99.26%	**PASS**
Related substances	RP-HPLC	Single ≤1.0 / Total ≤2.0%	0.47 / 0.74%	**PASS**
Water content	Karl Fischer (USP <921>)	≤ 8.0%	1.3%	**PASS**
Counter-ion: acetate	Ion chromatography	Report (3.0–15.0%)	8.1%	**PASS**
Net peptide content	Amino-acid analysis	≥ 80.0%	88.8%	**PASS**
Bacterial endotoxin	LAL kinetic (USP <85>)	< 5.0 EU/mg	0.04 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 (≥ 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 · 29 May 2026 · Zhongxi Research Institute

DLX.

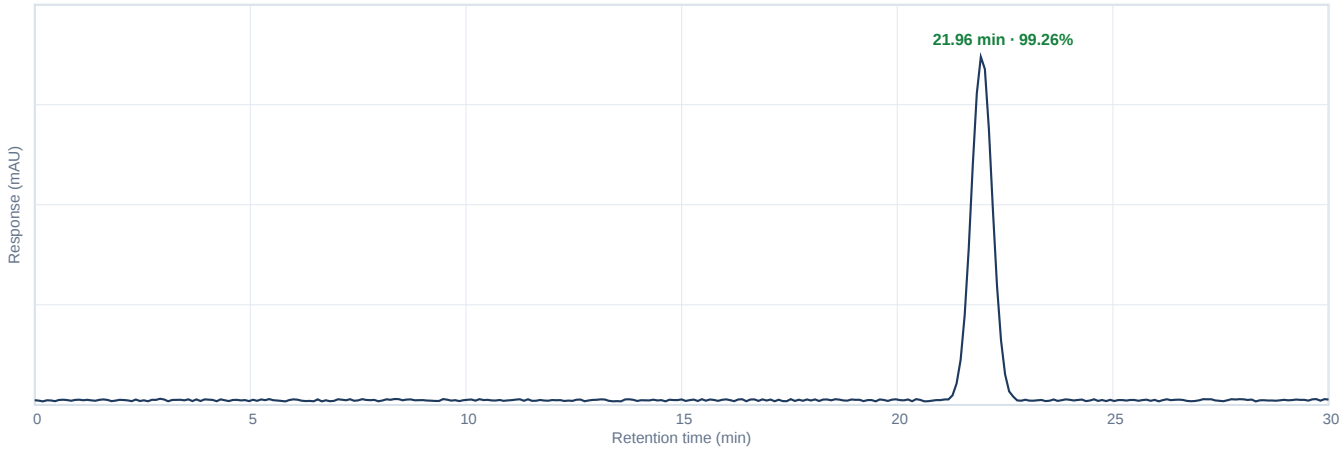
Dr. Lin Xia (QC Manager)
Approved by · 29 May 2026 · Zhongxi Research Institute

APPENDIX — ANALYTICAL RAW DATA

Pinealon 50mg · Lot ZX260512-315 · Cert. ZXR-COA-2026-54261

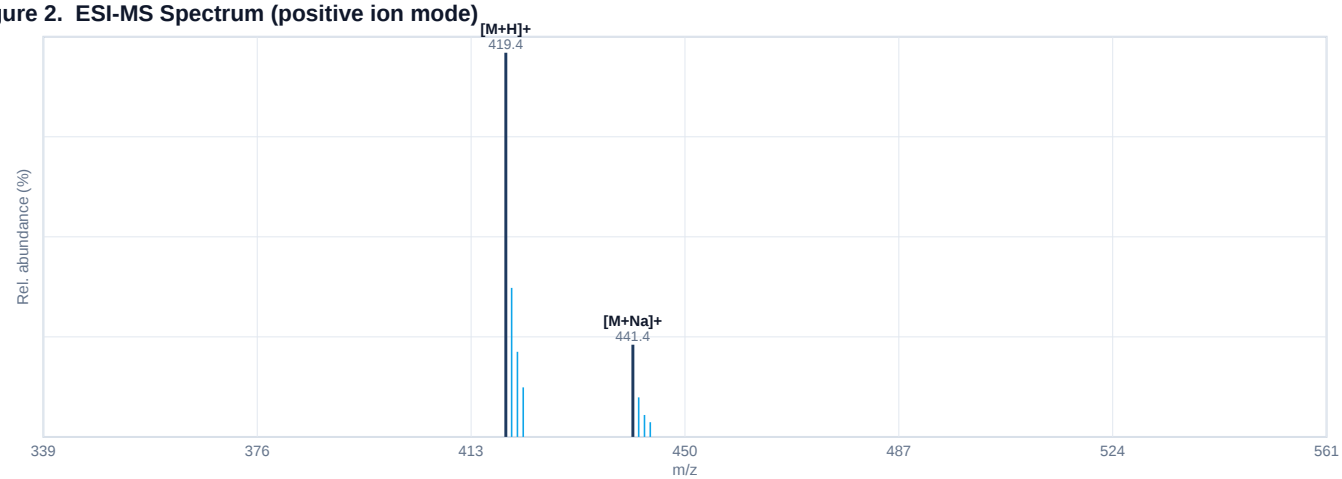
Scan to verify

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



Peak #	RT (min)	Area (µV·s)	Area %	Assignment
1	21.96	912903	99.26	Main (target)
2	8.80	3178	0.29	Impurity / related substance
3	15.24	2724	0.25	Impurity / related substance
4	2.90	1628	0.17	Impurity / related substance
5	9.24	284	0.03	Impurity / related substance

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



Interpretation

Identity confirmed by ESI-MS. Observed ions [M+H]+ 419.4, [M+Na]+ 441.4 deconvolute to a neutral monoisotopic-average mass of 418.40 Da (theoretical 418.40 Da; mass error 0 ppm), consistent with Pinealon. 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.

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CERTIFICATE OF ANALYSIS

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PASS
QC released for dispatch

Scan to verify

Oxytocin — 10mg

Oxytocin Acetate

1. PRODUCT IDENTIFICATION

Synonym	Oxytocin Acetate	**Label claim**	10mg
Sequence / structure	Cys-Tyr-Ile-Gln-Asn-Cys-Pro-Leu-Gly-NH2 (S-S 1-6)	**Lot / Batch**	ZX260512-795 / B87582
Mol. formula	C43H66N12O12S2	**Manufacture date**	25 May 2026
Mol. weight	1007.19 g/mol	**Date of analysis**	7 Jun 2026
CAS number	50-56-6	**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 1007.19 Da	1007.18 Da (Δ -10 ppm)	**PASS**
Purity	RP-HPLC, UV 220 nm	≥ 98.0% area	99.61%	**PASS**
Related substances	RP-HPLC	Single ≤1.0 / Total ≤2.0%	0.24 / 0.39%	**PASS**
Water content	Karl Fischer (USP <921>)	≤ 8.0%	2.3%	**PASS**
Counter-ion: acetate	Ion chromatography	Report (3.0–15.0%)	4.1%	**PASS**
Net peptide content	Amino-acid analysis	≥ 80.0%	92.8%	**PASS**
Bacterial endotoxin	LAL kinetic (USP <85>)	< 5.0 EU/mg	0.10 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 (≥ 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.

DXP.

Dr. Xu Ping
Analyst · 7 Jun 2026 · Zhongxi Research Institute

DFH.

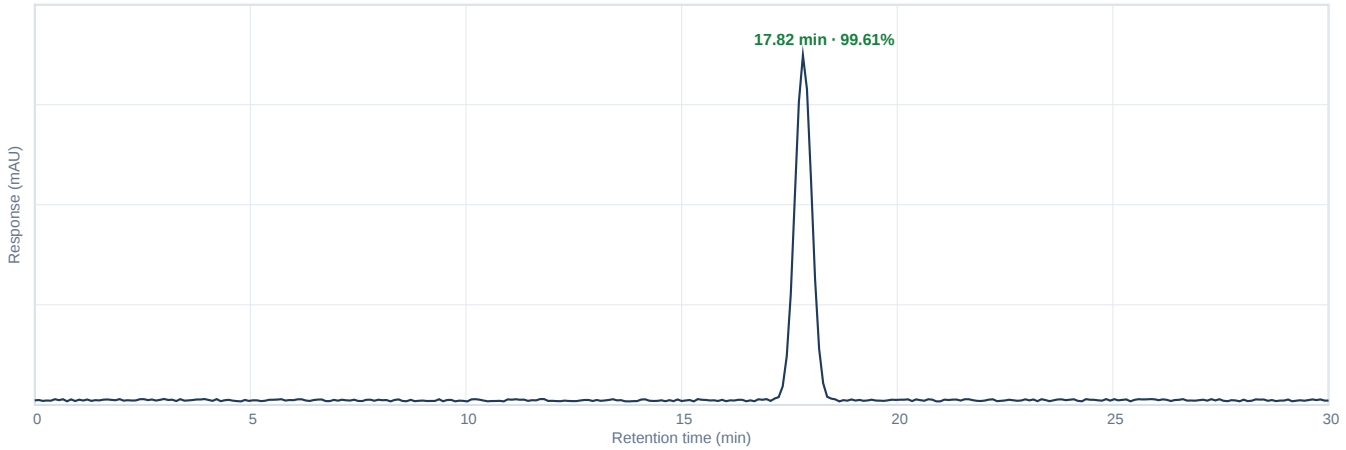
Dr. Fang Hong (QC Manager)
Approved by · 7 Jun 2026 · Zhongxi Research Institute

APPENDIX — ANALYTICAL RAW DATA

Oxytocin 10mg · Lot ZX260512-795 · Cert. ZXR-COA-2026-58966

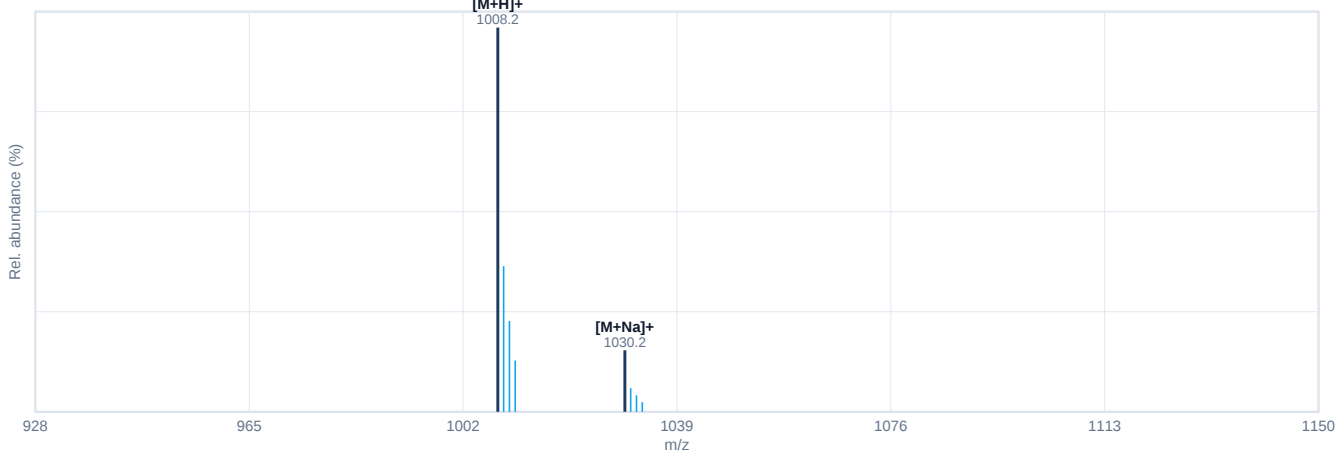
Scan to verify

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



Peak #	RT (min)	Area (μV·s)	Area %	Assignment
1	17.82	1023488	99.61	Main (target)
2	3.04	2012	0.20	Impurity / related substance
3	4.00	931	0.10	Impurity / related substance
4	11.70	880	0.09	Impurity / related substance

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



Interpretation

Identity confirmed by ESI-MS. Observed ions [M+H]+ 1008.2, [M+Na]+ 1030.2 deconvolute to a neutral monoisotopic-average mass of 1007.18 Da (theoretical 1007.19 Da; mass error -10 ppm), consistent with Oxytocin. 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.

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CERTIFICATE OF ANALYSIS

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PASS
QC released for dispatch

Scan to verify

Selank — 10mg

Selank Acetate

1. PRODUCT IDENTIFICATION

Synonym	Selank Acetate	**Label claim**	10mg
Sequence / structure	Thr-Lys-Pro-Arg-Pro-Gly-Pro	**Lot / Batch**	ZX260512-323 / B49082
Mol. formula	C33H57N11O9	**Manufacture date**	30 May 2026
Mol. weight	751.88 g/mol	**Date of analysis**	12 Jun 2026
CAS number	129954-34-3	**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 751.88 Da	751.89 Da (Δ 13 ppm)	**PASS**
Purity	RP-HPLC, UV 220 nm	≥ 98.0% area	99.43%	**PASS**
Related substances	RP-HPLC	Single ≤1.0 / Total ≤2.0%	0.33 / 0.57%	**PASS**
Water content	Karl Fischer (USP <921>)	≤ 8.0%	3.3%	**PASS**
Counter-ion: acetate	Ion chromatography	Report (3.0–15.0%)	7.6%	**PASS**
Net peptide content	Amino-acid analysis	≥ 80.0%	87.9%	**PASS**
Bacterial endotoxin	LAL kinetic (USP <85>)	< 5.0 EU/mg	0.14 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 (≥ 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.

DZK.

Dr. Zhou Kai
Analyst · 12 Jun 2026 · Zhongxi Research Institute

DGT.

Dr. Guo Tao (QC Manager)
Approved by · 12 Jun 2026 · Zhongxi Research Institute

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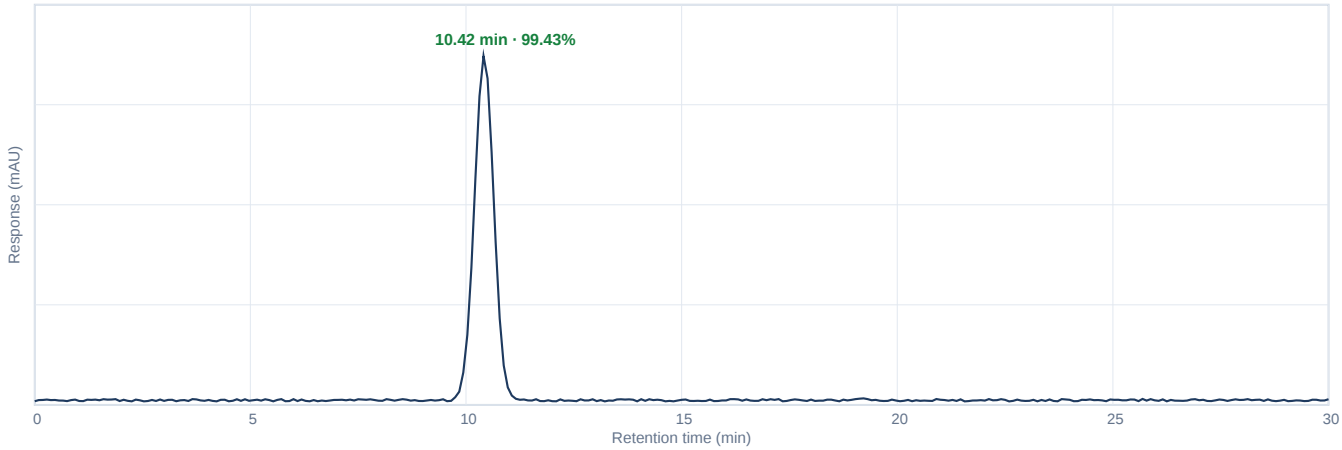
APPENDIX — ANALYTICAL RAW DATA

Selank 10mg · Lot ZX260512-323 · Cert. ZXR-COA-2026-89422

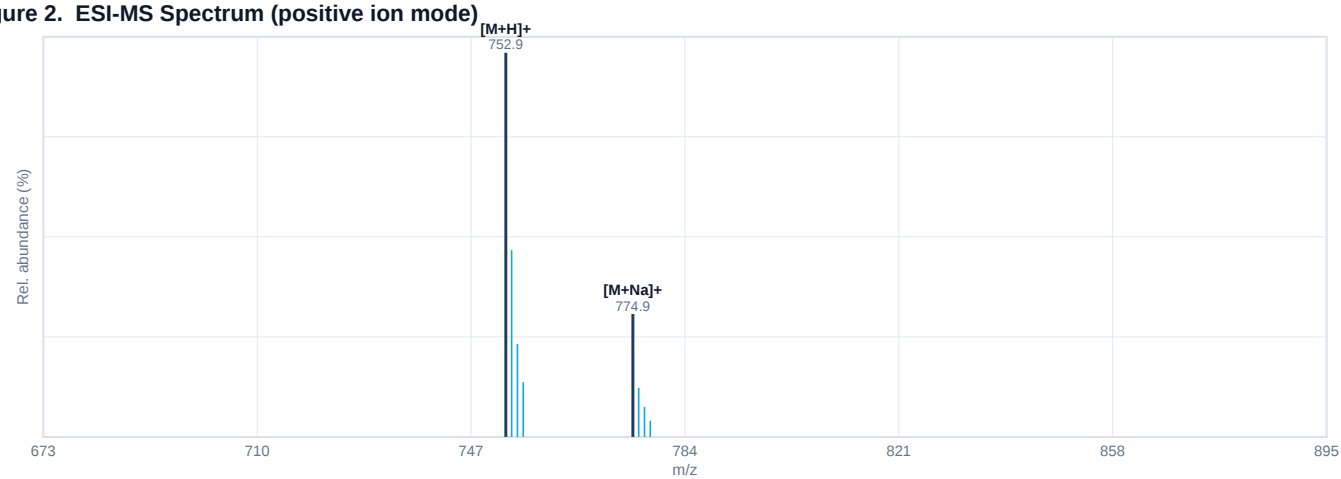
Scan to verify

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



Peak #	RT (min)	Area (μV·s)	Area %	Assignment
1	10.42	1020001	99.43	Main (target)
2	19.14	2373	0.25	Impurity / related substance
3	20.75	1182	0.12	Impurity / related substance
4	16.42	1065	0.11	Impurity / related substance
5	25.76	825	0.09	Impurity / related substance

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



Interpretation

Identity confirmed by ESI-MS. Observed ions [M+H]+ 752.9, [M+Na]+ 774.9 deconvolute to a neutral monoisotopic-average mass of 751.89 Da (theoretical 751.88 Da; mass error 13 ppm), consistent with Selank. 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.

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CERTIFICATE OF ANALYSIS

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PASS
QC released for dispatch

Scan to verify

Selank — 20mg

Selank Acetate

1. PRODUCT IDENTIFICATION

Synonym	Selank Acetate	**Label claim**	20mg
Sequence / structure	Thr-Lys-Pro-Arg-Pro-Gly-Pro	**Lot / Batch**	ZX260512-176 / B45484
Mol. formula	C33H57N11O9	**Manufacture date**	23 May 2026
Mol. weight	751.88 g/mol	**Date of analysis**	4 Jun 2026
CAS number	129954-34-3	**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 751.88 Da	751.88 Da (Δ 0 ppm)	**PASS**
Purity	RP-HPLC, UV 220 nm	≥ 98.0% area	98.99%	**PASS**
Related substances	RP-HPLC	Single ≤1.0 / Total ≤2.0%	0.51 / 1.01%	**PASS**
Water content	Karl Fischer (USP <921>)	≤ 8.0%	1.2%	**PASS**
Counter-ion: acetate	Ion chromatography	Report (3.0–15.0%)	6.2%	**PASS**
Net peptide content	Amino-acid analysis	≥ 80.0%	90.8%	**PASS**
Bacterial endotoxin	LAL kinetic (USP <85>)	< 5.0 EU/mg	0.08 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 (≥ 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.

DXP.

Dr. Xu Ping
Analyst · 4 Jun 2026 · Zhongxi Research Institute

DLX.

Dr. Lin Xia (QC Manager)
Approved by · 4 Jun 2026 · Zhongxi Research Institute

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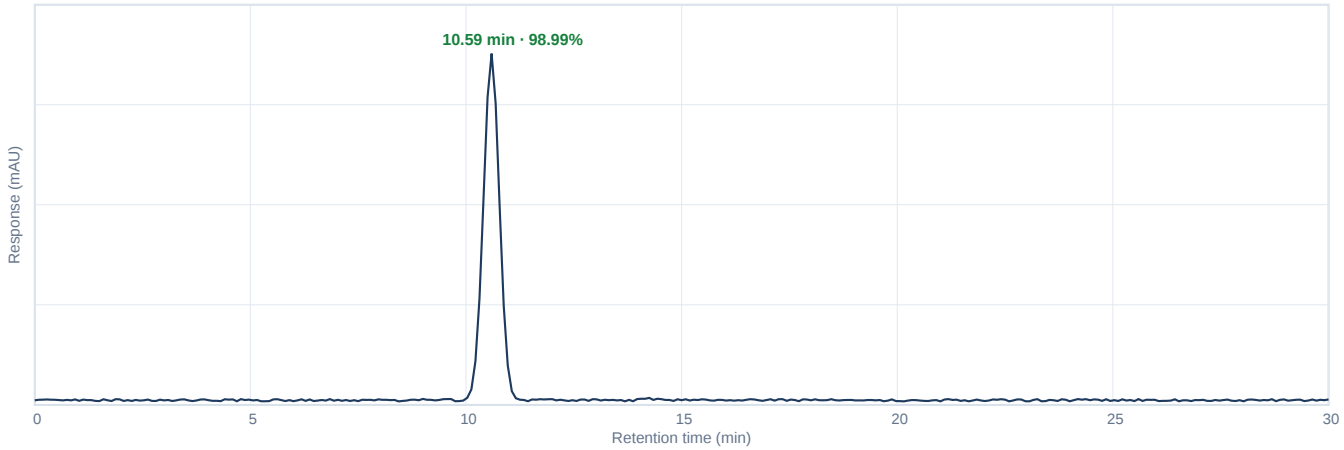
APPENDIX — ANALYTICAL RAW DATA

Selank 20mg · Lot ZX260512-176 · Cert. ZXR-COA-2026-40531

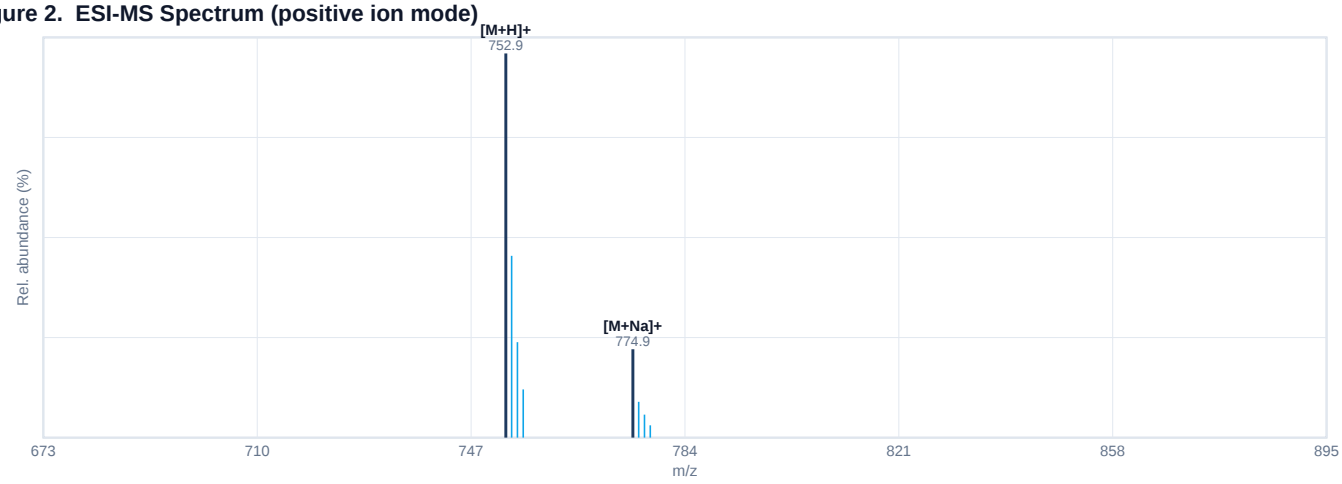
Scan to verify

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



Peak #	RT (min)	Area (µV·s)	Area %	Assignment
1	10.59	996899	98.99	Main (target)
2	14.27	5122	0.51	Impurity / related substance
3	9.26	2489	0.23	Impurity / related substance

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



Interpretation

Identity confirmed by ESI-MS. Observed ions [M+H]+ 752.9, [M+Na]+ 774.9 deconvolute to a neutral monoisotopic-average mass of 751.88 Da (theoretical 751.88 Da; mass error 0 ppm), consistent with Selank. 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.

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CERTIFICATE OF ANALYSIS

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

PASS
QC released for dispatch

Scan to verify

Semax — 10mg

Semax Acetate

1. PRODUCT IDENTIFICATION

Synonym	Semax Acetate	**Label claim**	10mg
Sequence / structure	Met-Glu-His-Phe-Pro-Gly-Pro	**Lot / Batch**	ZX260512-458 / B46905
Mol. formula	C37H51N9O10S	**Manufacture date**	13 May 2026
Mol. weight	813.93 g/mol	**Date of analysis**	23 May 2026
CAS number	80714-61-0	**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 813.93 Da	813.94 Da (Δ 12 ppm)	**PASS**
Purity	RP-HPLC, UV 220 nm	≥ 98.0% area	99.19%	**PASS**
Related substances	RP-HPLC	Single ≤1.0 / Total ≤2.0%	0.47 / 0.81%	**PASS**
Water content	Karl Fischer (USP <921>)	≤ 8.0%	2.4%	**PASS**
Counter-ion: acetate	Ion chromatography	Report (3.0–15.0%)	5.3%	**PASS**
Net peptide content	Amino-acid analysis	≥ 80.0%	90.5%	**PASS**
Bacterial endotoxin	LAL kinetic (USP <85>)	< 5.0 EU/mg	0.07 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 (≥ 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.

DSY.

Dr. Sun Yan
Analyst · 23 May 2026 · Zhongxi Research Institute

DFH.

Dr. Fang Hong (QC Manager)
Approved by · 23 May 2026 · Zhongxi Research Institute

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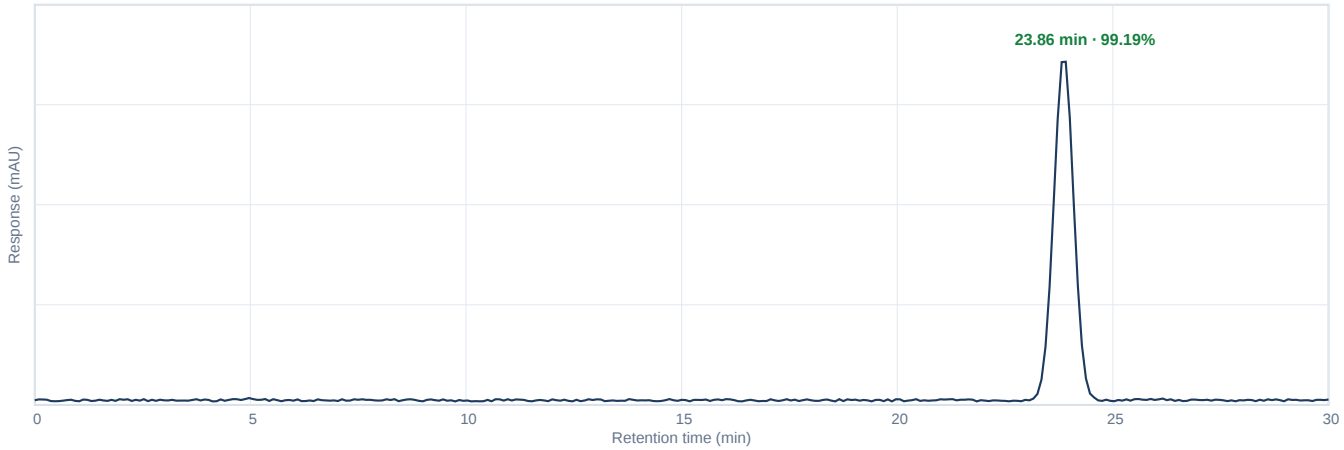
APPENDIX — ANALYTICAL RAW DATA

Semax 10mg · Lot ZX260512-458 · Cert. ZXR-COA-2026-83448

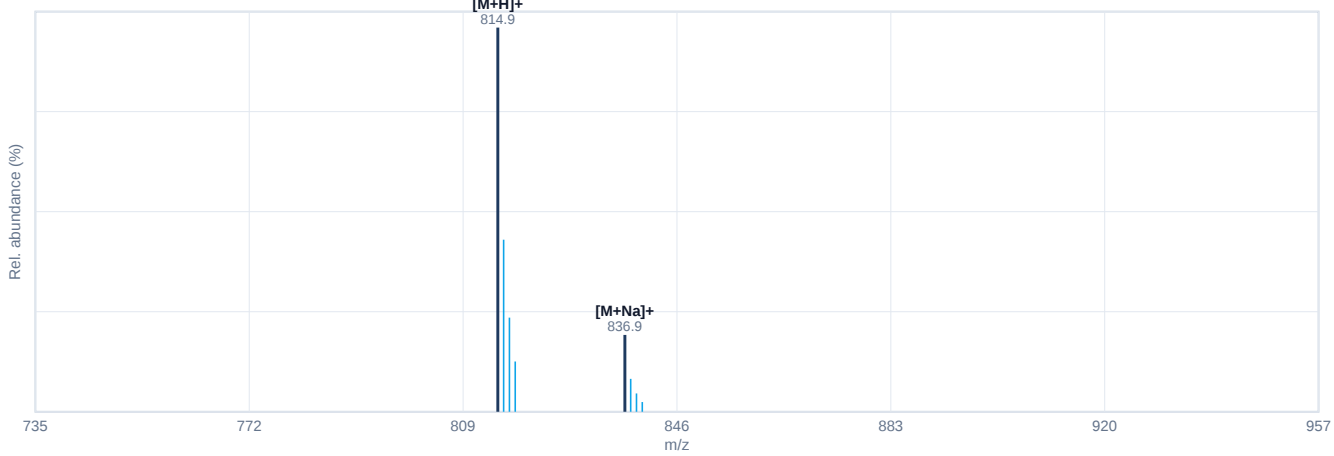
Scan to verify

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



Peak #	RT (min)	Area (µV·s)	Area %	Assignment
1	23.86	1030321	99.19	Main (target)
2	5.02	4388	0.44	Impurity / related substance
3	25.91	3303	0.34	Impurity / related substance
4	3.00	315	0.03	Impurity / related substance

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



Interpretation

Identity confirmed by ESI-MS. Observed ions [M+H]+ 814.9, [M+Na]+ 836.9 deconvolute to a neutral monoisotopic-average mass of 813.94 Da (theoretical 813.93 Da; mass error 12 ppm), consistent with Semax. 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.

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CERTIFICATE OF ANALYSIS

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

PASS
QC released for dispatch

Scan to verify

Semax — 20mg

Semax Acetate

1. PRODUCT IDENTIFICATION

Synonym	Semax Acetate	**Label claim**	20mg
Sequence / structure	Met-Glu-His-Phe-Pro-Gly-Pro	**Lot / Batch**	ZX260512-206 / B68278
Mol. formula	C37H51N9O10S	**Manufacture date**	1 Jun 2026
Mol. weight	813.93 g/mol	**Date of analysis**	13 Jun 2026
CAS number	80714-61-0	**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 813.93 Da	813.94 Da (Δ 12 ppm)	**PASS**
Purity	RP-HPLC, UV 220 nm	≥ 98.0% area	99.12%	**PASS**
Related substances	RP-HPLC	Single ≤1.0 / Total ≤2.0%	0.41 / 0.88%	**PASS**
Water content	Karl Fischer (USP <921>)	≤ 8.0%	1.2%	**PASS**
Counter-ion: acetate	Ion chromatography	Report (3.0–15.0%)	9.8%	**PASS**
Net peptide content	Amino-acid analysis	≥ 80.0%	87.8%	**PASS**
Bacterial endotoxin	LAL kinetic (USP <85>)	< 5.0 EU/mg	0.04 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 (≥ 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.

DZL.

Dr. Zhao Liang
Analyst · 13 Jun 2026 · Zhongxi Research Institute

DLX.

Dr. Lin Xia (QC Manager)
Approved by · 13 Jun 2026 · Zhongxi Research Institute

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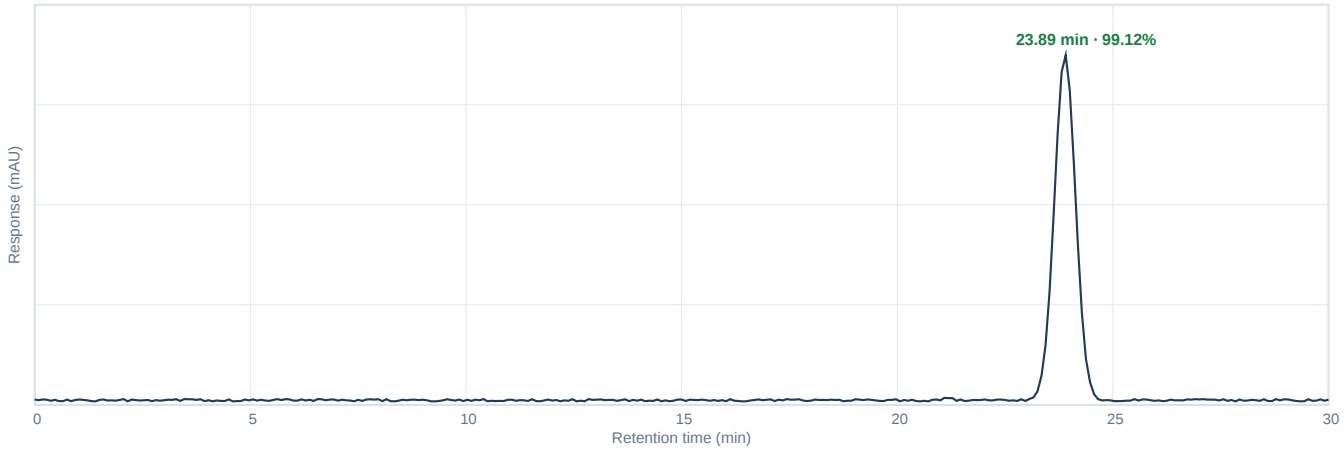
APPENDIX — ANALYTICAL RAW DATA

Semax 20mg · Lot ZX260512-206 · Cert. ZXR-COA-2026-69440

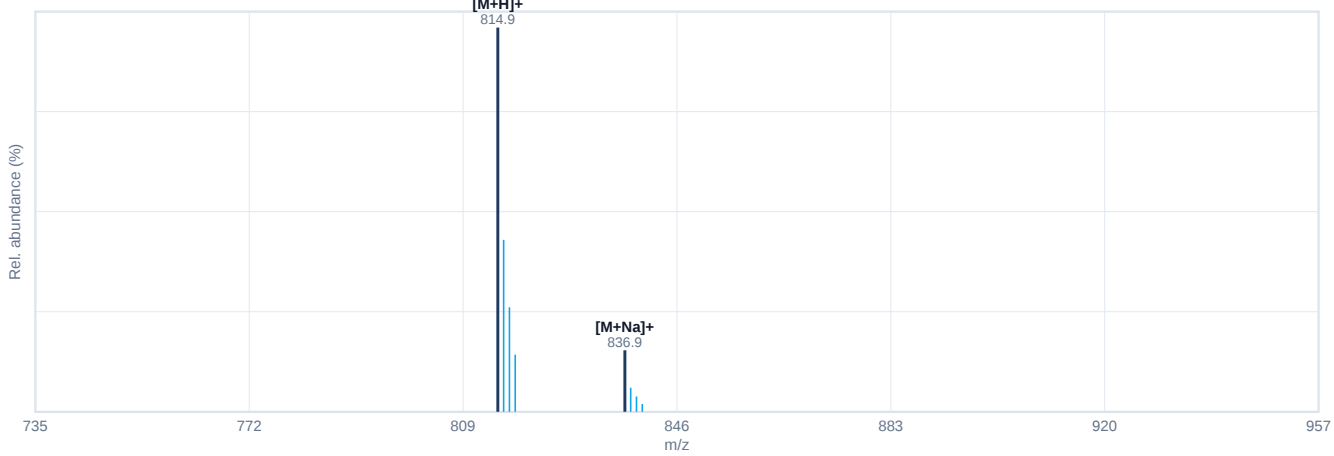
Scan to verify

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



Peak #	RT (min)	Area (µV·s)	Area %	Assignment
1	23.89	993371	99.12	Main (target)
2	21.15	4032	0.41	Impurity / related substance
3	3.61	2282	0.24	Impurity / related substance
4	6.03	2254	0.23	Impurity / related substance

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



Interpretation

Identity confirmed by ESI-MS. Observed ions [M+H]+ 814.9, [M+Na]+ 836.9 deconvolute to a neutral monoisotopic-average mass of 813.94 Da (theoretical 813.93 Da; mass error 12 ppm), consistent with Semax. 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.

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CERTIFICATE OF ANALYSIS

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

PASS
QC released for dispatch

Scan to verify

PT-141 — 10mg

Bremelanotide

1. PRODUCT IDENTIFICATION

Synonym	Bremelanotide	**Label claim**	10mg
Sequence / structure	Ac-Nle-cyclo[Asp-His-D-Phe-Arg-Trp-Lys]-OH	**Lot / Batch**	ZX260512-707 / B84393
Mol. formula	C50H68N14O10	**Manufacture date**	15 May 2026
Mol. weight	1025.18 g/mol	**Date of analysis**	23 May 2026
CAS number	189691-06-3	**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 1025.18 Da	1025.18 Da (Δ 0 ppm)	**PASS**
Purity	RP-HPLC, UV 220 nm	≥ 98.0% area	98.32%	**PASS**
Related substances	RP-HPLC	Single ≤1.0 / Total ≤2.0%	0.90 / 1.68%	**PASS**
Water content	Karl Fischer (USP <921>)	≤ 8.0%	3.5%	**PASS**
Counter-ion: acetate	Ion chromatography	Report (3.0–15.0%)	9.0%	**PASS**
Net peptide content	Amino-acid analysis	≥ 80.0%	85.7%	**PASS**
Bacterial endotoxin	LAL kinetic (USP <85>)	< 5.0 EU/mg	0.10 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 (≥ 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.

DSY.

Dr. Sun Yan
Analyst · 23 May 2026 · Zhongxi Research Institute

DFH.

Dr. Fang Hong (QC Manager)
Approved by · 23 May 2026 · Zhongxi Research Institute

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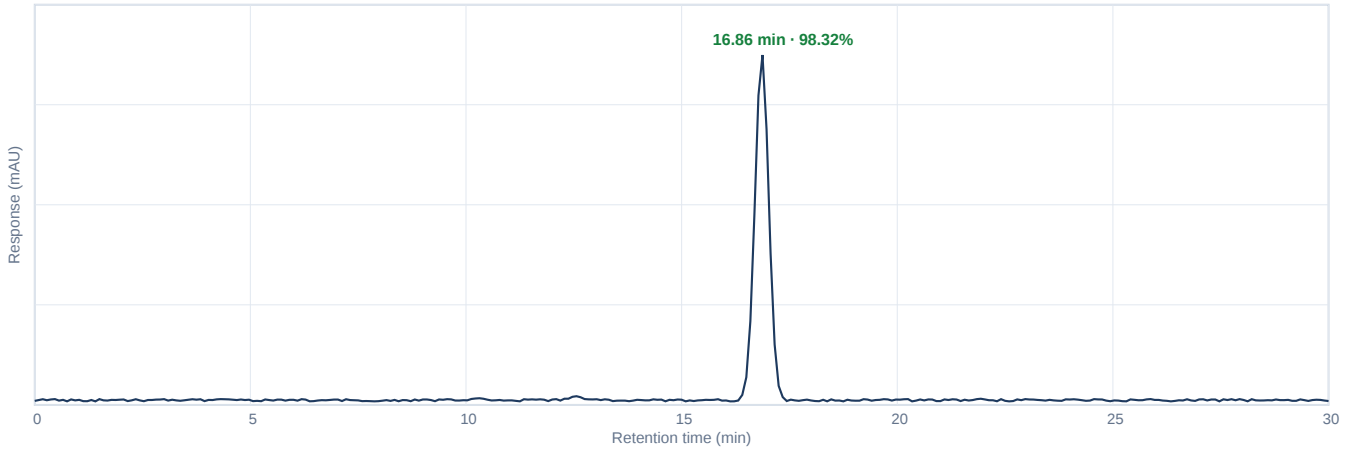
APPENDIX — ANALYTICAL RAW DATA

PT-141 10mg · Lot ZX260512-707 · Cert. ZXR-COA-2026-94003

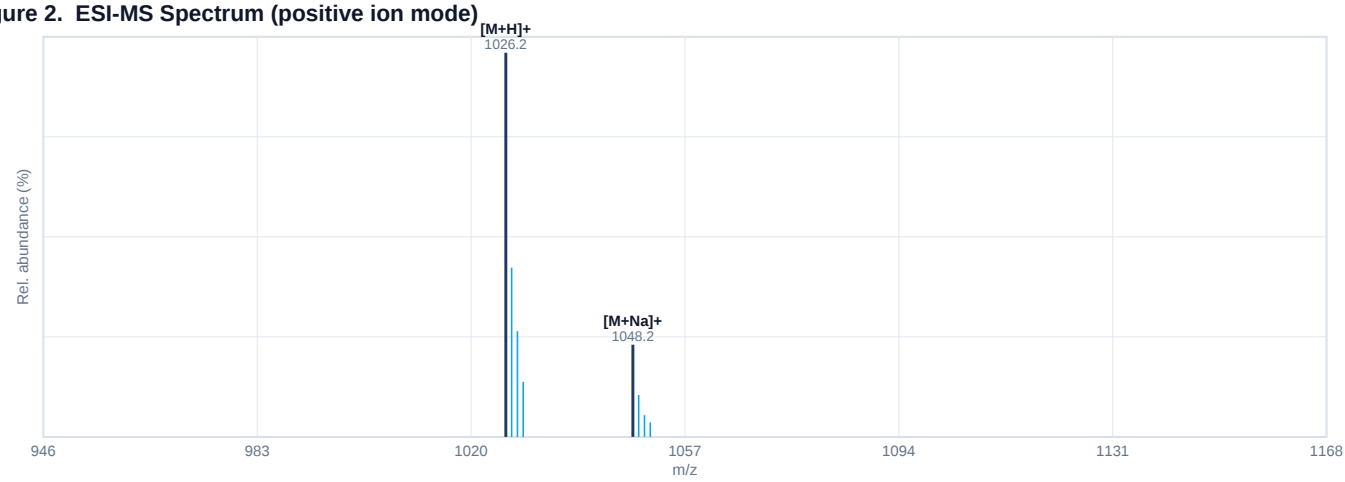
Scan to verify

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



Peak #	RT (min)	Area (µV·s)	Area %	Assignment
1	16.86	930946	98.32	Main (target)
2	12.50	9381	0.90	Impurity / related substance
3	10.31	4334	0.45	Impurity / related substance
4	21.99	2134	0.23	Impurity / related substance
5	25.60	922	0.10	Impurity / related substance

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



Interpretation

Identity confirmed by ESI-MS. Observed ions [M+H]+ 1026.2, [M+Na]+ 1048.2 deconvolute to a neutral monoisotopic-average mass of 1025.18 Da (theoretical 1025.18 Da; mass error 0 ppm), consistent with PT-141. 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.

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CERTIFICATE OF ANALYSIS

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

PASS
QC released for dispatch

Scan to verify

Semaglutide — 5mg

GLP-1 Receptor Agonist

1. PRODUCT IDENTIFICATION

Synonym	GLP-1 Receptor Agonist	**Label claim**	5mg
Sequence / structure	GLP-1 analogue (Aib8, Arg34, C18-diacid @Lys26)	**Lot / Batch**	ZX260512-958 / B68447
Mol. formula	C187H291N45O59	**Manufacture date**	18 May 2026
Mol. weight	4113.58 g/mol	**Date of analysis**	22 May 2026
CAS number	910463-68-2	**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 4113.58 Da	4113.62 Da (Δ 10 ppm)	**PASS**
Purity	RP-HPLC, UV 220 nm	≥ 98.0% area	99.44%	**PASS**
Related substances	RP-HPLC	Single ≤1.0 / Total ≤2.0%	0.25 / 0.56%	**PASS**
Water content	Karl Fischer (USP <921>)	≤ 8.0%	3.8%	**PASS**
Counter-ion: acetate	Ion chromatography	Report (3.0–15.0%)	9.0%	**PASS**
Net peptide content	Amino-acid analysis	≥ 80.0%	85.1%	**PASS**
Bacterial endotoxin	LAL kinetic (USP <85>)	< 5.0 EU/mg	0.16 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 (≥ 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 · 22 May 2026 · Zhongxi Research Institute

DFH.

Dr. Fang Hong (QC Manager)
Approved by · 22 May 2026 · Zhongxi Research Institute

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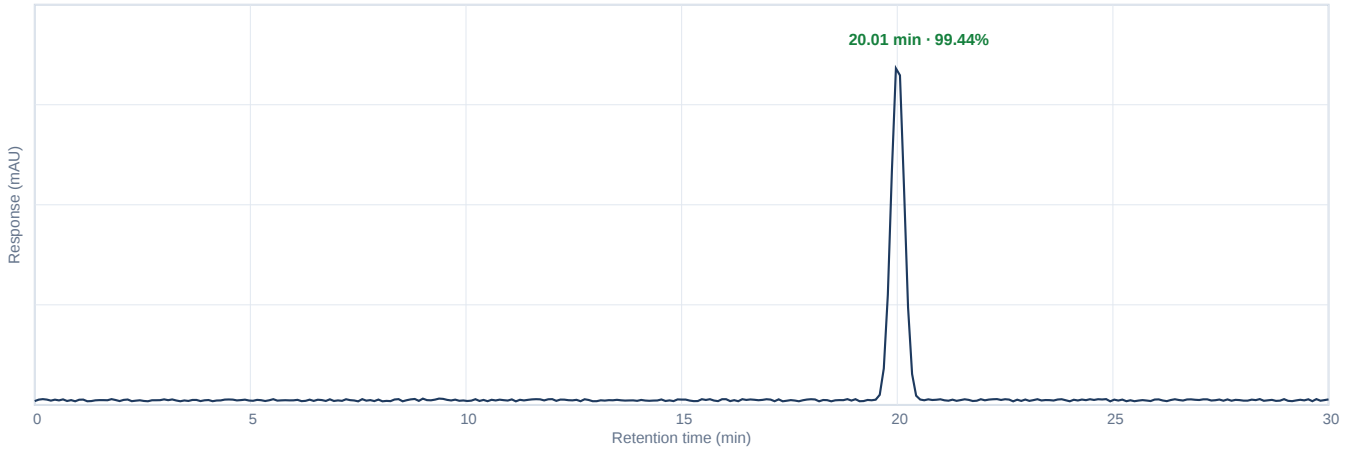
APPENDIX — ANALYTICAL RAW DATA

Semaglutide 5mg · Lot ZX260512-958 · Cert. ZXR-COA-2026-89155

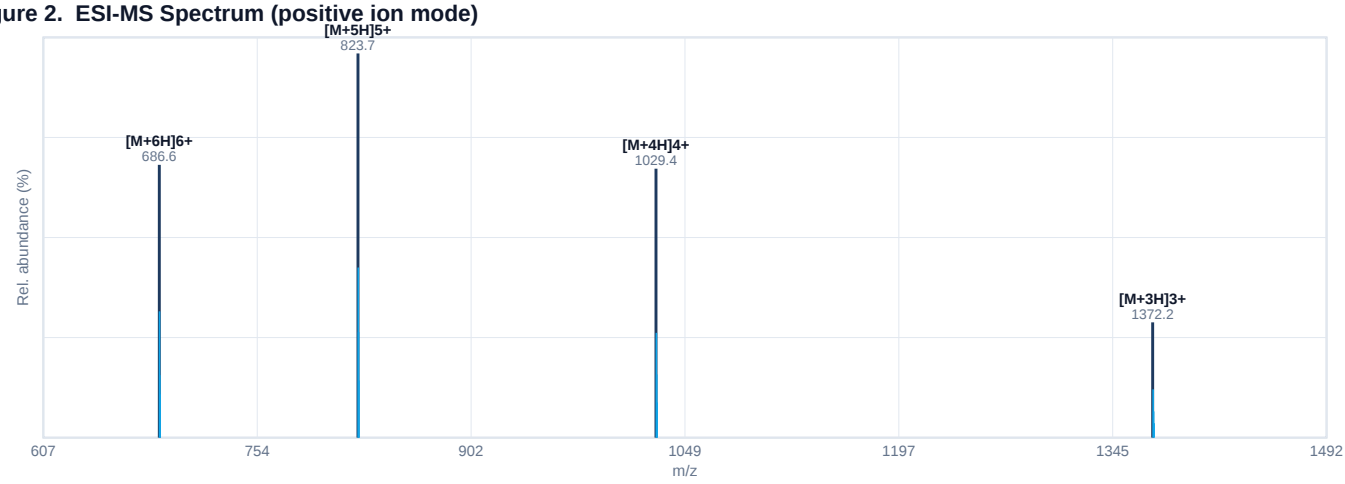
Scan to verify

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



Peak #	RT (min)	Area (μV·s)	Area %	Assignment
1	20.01	1010429	99.44	Main (target)
2	9.48	2631	0.25	Impurity / related substance
3	9.04	1511	0.14	Impurity / related substance

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



Interpretation

Identity confirmed by ESI-MS. Observed ions [M+3H]3+ 1372.2, [M+4H]4+ 1029.4, [M+5H]5+ 823.7, [M+6H]6+ 686.6 deconvolute to a neutral monoisotopic-average mass of 4113.62 Da (theoretical 4113.58 Da; mass error 10 ppm), consistent with Semaglutide. 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.

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CERTIFICATE OF ANALYSIS

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PASS
QC released for dispatch

Scan to verify

Tirzepatide — 10mg

GIP/GLP-1 Dual Agonist

1. PRODUCT IDENTIFICATION

Synonym	GIP/GLP-1 Dual Agonist	**Label claim**	10mg
Sequence / structure	GIP/GLP-1 dual agonist (Aib2, Aib13, C20-diacid)	**Lot / Batch**	ZX260512-449 / B38661
Mol. formula	C225H348N48O68	**Manufacture date**	25 May 2026
Mol. weight	4813.45 g/mol	**Date of analysis**	8 Jun 2026
CAS number	2023788-19-2	**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 4813.45 Da	4813.45 Da (Δ 0 ppm)	**PASS**
Purity	RP-HPLC, UV 220 nm	≥ 98.0% area	99.20%	**PASS**
Related substances	RP-HPLC	Single ≤1.0 / Total ≤2.0%	0.39 / 0.80%	**PASS**
Water content	Karl Fischer (USP <921>)	≤ 8.0%	1.2%	**PASS**
Counter-ion: acetate	Ion chromatography	Report (3.0–15.0%)	6.9%	**PASS**
Net peptide content	Amino-acid analysis	≥ 80.0%	91.1%	**PASS**
Bacterial endotoxin	LAL kinetic (USP <85>)	< 5.0 EU/mg	0.16 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 (≥ 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.

DXP.

Dr. Xu Ping
Analyst · 8 Jun 2026 · Zhongxi Research Institute

DFH.

Dr. Fang Hong (QC Manager)
Approved by · 8 Jun 2026 · Zhongxi Research Institute

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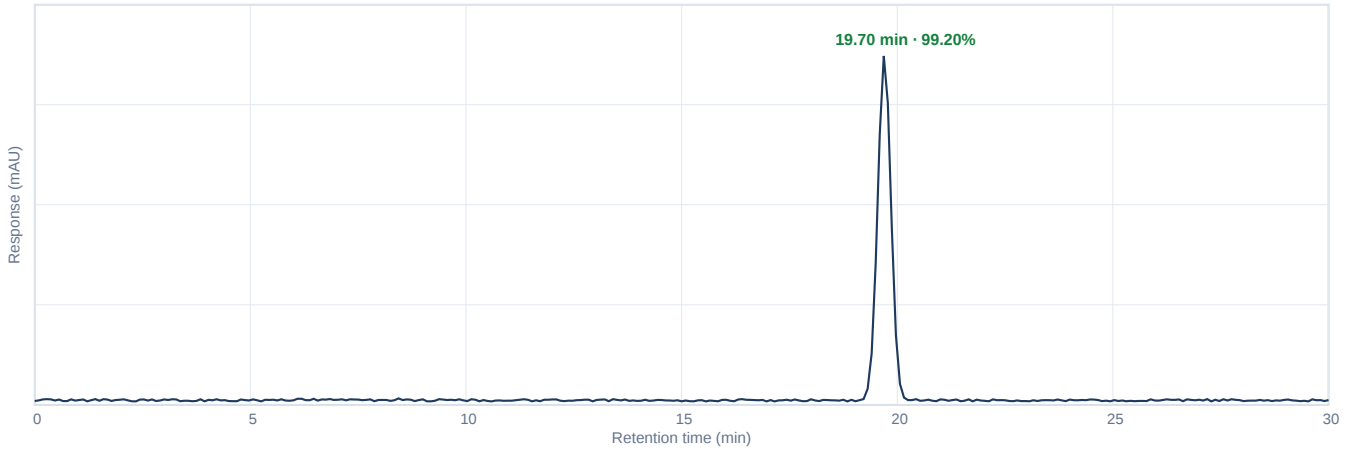
APPENDIX — ANALYTICAL RAW DATA

Tirzepatide 10mg · Lot ZX260512-449 · Cert. ZXR-COA-2026-93624

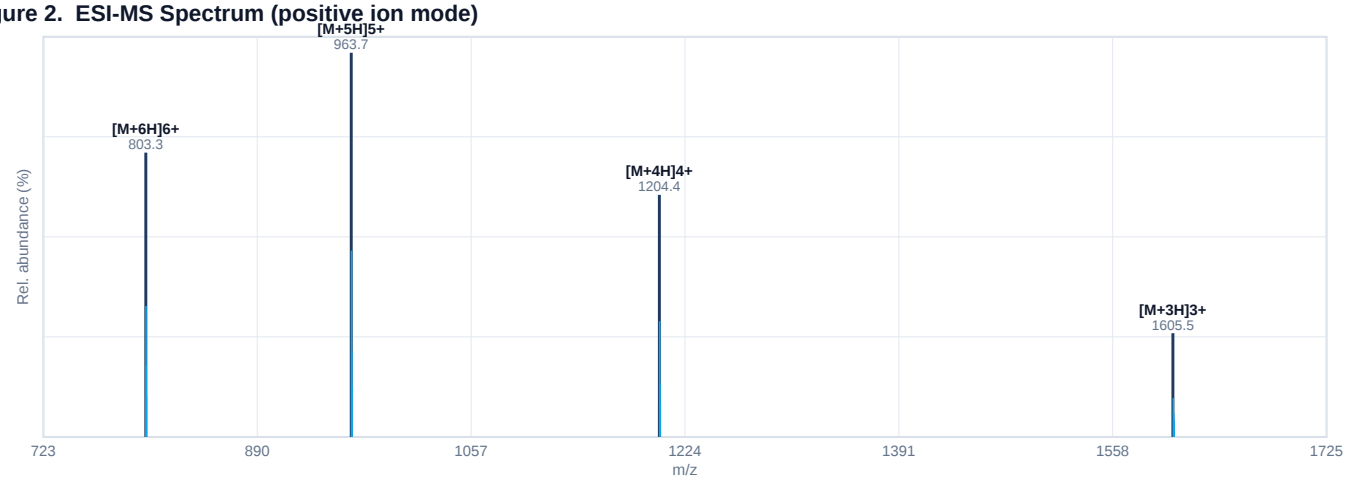
Scan to verify

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



Peak #	RT (min)	Area (μV·s)	Area %	Assignment
1	19.70	1021673	99.20	Main (target)
2	6.21	3377	0.32	Impurity / related substance
3	8.49	2808	0.26	Impurity / related substance
4	6.70	1698	0.17	Impurity / related substance
5	12.24	472	0.05	Impurity / related substance

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



Interpretation

Identity confirmed by ESI-MS. Observed ions [M+3H]3+ 1605.5, [M+4H]4+ 1204.4, [M+5H]5+ 963.7, [M+6H]6+ 803.3 deconvolute to a neutral monoisotopic-average mass of 4813.45 Da (theoretical 4813.45 Da; mass error 0 ppm), consistent with Tirzepatide. 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.

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CERTIFICATE OF ANALYSIS

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PASS
QC released for dispatch

Scan to verify

Retatrutide — 10mg

GIP/GLP-1/Glucagon Receptor Agonist

1. PRODUCT IDENTIFICATION

Synonym	GIP/GLP-1/Glucagon Receptor Agonist	**Label claim**	10mg
Sequence / structure	Proprietary triple-agonist sequence	**Lot / Batch**	ZX260512-895 / B55596
Mol. formula	C221H342N46O68	**Manufacture date**	1 Jun 2026
Mol. weight	4731.27 g/mol	**Date of analysis**	7 Jun 2026
CAS number	2381089-83-2	**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 4731.27 Da	4731.21 Da (Δ -13 ppm)	PASS
Purity	RP-HPLC, UV 220 nm	≥ 98.0% area	98.25%	PASS
Related substances	RP-HPLC	Single ≤1.0 / Total ≤2.0%	0.90 / 1.75%	PASS
Water content	Karl Fischer (USP <921>)	≤ 8.0%	1.7%	PASS
Counter-ion: acetate	Ion chromatography	Report (3.0–15.0%)	4.3%	PASS
Net peptide content	Amino-acid analysis	≥ 80.0%	92.0%	PASS
Bacterial endotoxin	LAL kinetic (USP <85>)	< 5.0 EU/mg	0.06 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 (≥ 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.

DCJ.

Dr. Chen Jian
Analyst · 7 Jun 2026 · Zhongxi Research Institute

DFH.

Dr. Fang Hong (QC Manager)
Approved by · 7 Jun 2026 · Zhongxi Research Institute

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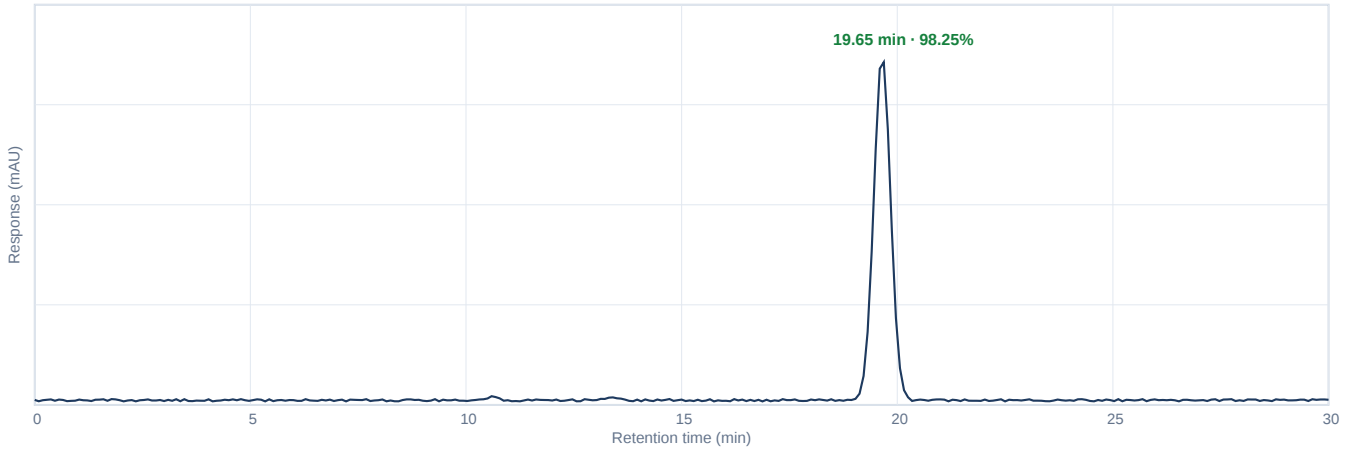
APPENDIX — ANALYTICAL RAW DATA

Retatrutide 10mg · Lot ZX260512-895 · Cert. ZXR-COA-2026-23077

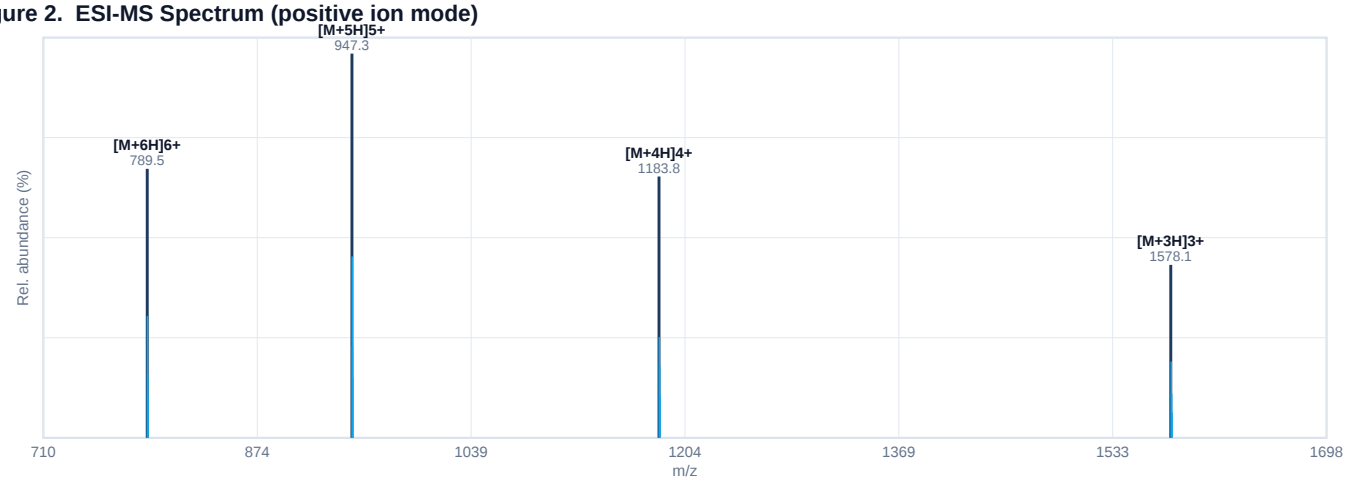
Scan to verify

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



Peak #	RT (min)	Area (µV·s)	Area %	Assignment
1	19.65	914845	98.25	Main (target)
2	10.59	9371	0.90	Impurity / related substance
3	13.40	6191	0.57	Impurity / related substance
4	14.68	1624	0.17	Impurity / related substance

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



Interpretation

Identity confirmed by ESI-MS. Observed ions [M+3H]3+ 1578.1, [M+4H]4+ 1183.8, [M+5H]5+ 947.3, [M+6H]6+ 789.5 deconvolute to a neutral monoisotopic-average mass of 4731.21 Da (theoretical 4731.27 Da; mass error -13 ppm), consistent with Retatrutide. 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.

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CERTIFICATE OF ANALYSIS

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PASS
QC released for dispatch

Scan to verify

Retatrutide — 20mg

GIP/GLP-1/Glucagon Receptor Agonist

1. PRODUCT IDENTIFICATION

Synonym	GIP/GLP-1/Glucagon Receptor Agonist	**Label claim**	20mg
Sequence / structure	Proprietary triple-agonist sequence	**Lot / Batch**	ZX260512-375 / B13619
Mol. formula	C221H342N46O68	**Manufacture date**	2 Jun 2026
Mol. weight	4731.27 g/mol	**Date of analysis**	6 Jun 2026
CAS number	2381089-83-2	**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 4731.27 Da	4731.21 Da (Δ -13 ppm)	**PASS**
Purity	RP-HPLC, UV 220 nm	≥ 98.0% area	99.25%	**PASS**
Related substances	RP-HPLC	Single ≤1.0 / Total ≤2.0%	0.51 / 0.75%	**PASS**
Water content	Karl Fischer (USP <921>)	≤ 8.0%	2.4%	**PASS**
Counter-ion: acetate	Ion chromatography	Report (3.0–15.0%)	8.5%	**PASS**
Net peptide content	Amino-acid analysis	≥ 80.0%	87.9%	**PASS**
Bacterial endotoxin	LAL kinetic (USP <85>)	< 5.0 EU/mg	0.05 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 (≥ 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 · 6 Jun 2026 · Zhongxi Research Institute

DLX.

Dr. Lin Xia (QC Manager)
Approved by · 6 Jun 2026 · Zhongxi Research Institute

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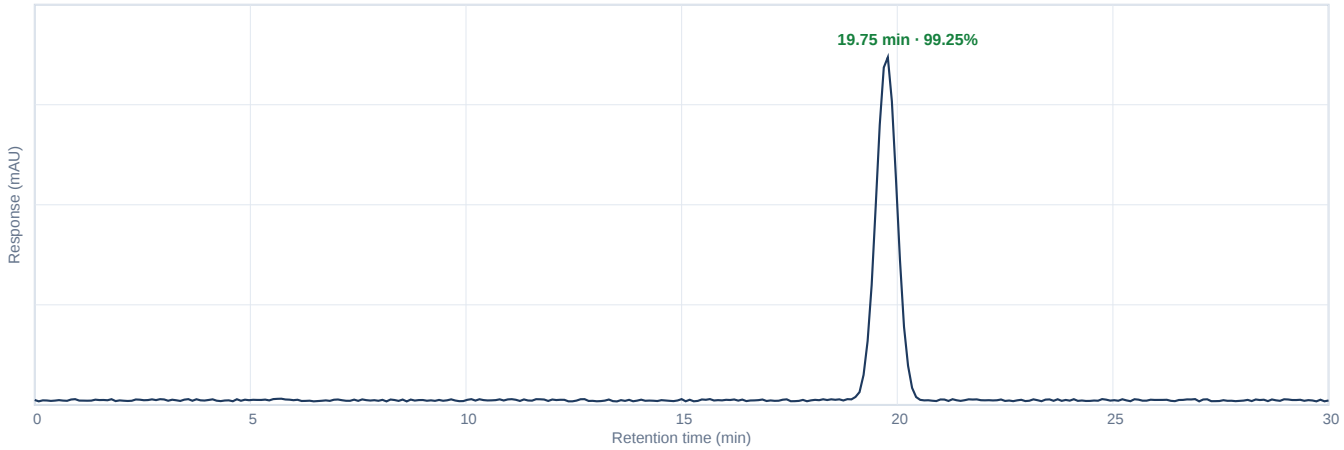
APPENDIX — ANALYTICAL RAW DATA

Retatrutide 20mg · Lot ZX260512-375 · Cert. ZXR-COA-2026-42117

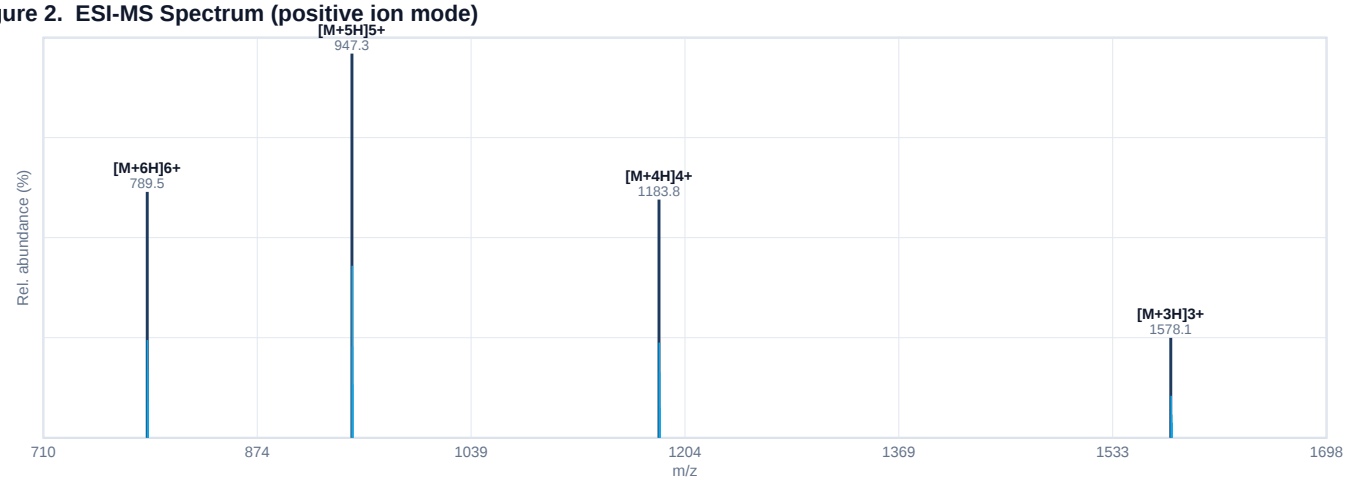
Scan to verify

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



Peak #	RT (min)	Area (µV·s)	Area %	Assignment
1	19.75	1054331	99.25	Main (target)
2	5.83	3866	0.40	Impurity / related substance
3	10.67	2599	0.26	Impurity / related substance
4	16.70	921	0.09	Impurity / related substance

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



Interpretation

Identity confirmed by ESI-MS. Observed ions [M+3H]3+ 1578.1, [M+4H]4+ 1183.8, [M+5H]5+ 947.3, [M+6H]6+ 789.5 deconvolute to a neutral monoisotopic-average mass of 4731.21 Da (theoretical 4731.27 Da; mass error -13 ppm), consistent with Retatrutide. 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.

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CERTIFICATE OF ANALYSIS

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PASS
QC released for dispatch

Scan to verify

Cagrilintide — 10mg

Amylin Analog

1. PRODUCT IDENTIFICATION

Synonym	Amylin Analog	**Label claim**	10mg
Sequence / structure	Acylated amylin analogue	**Lot / Batch**	ZX260512-693 / B42637
Mol. formula	C194H312N54O59S2	**Manufacture date**	1 Jun 2026
Mol. weight	4409.06 g/mol	**Date of analysis**	13 Jun 2026
CAS number	1415456-99-3	**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 4409.06 Da	4409.09 Da (Δ 7 ppm)	**PASS**
Purity	RP-HPLC, UV 220 nm	≥ 98.0% area	98.68%	**PASS**
Related substances	RP-HPLC	Single ≤1.0 / Total ≤2.0%	0.65 / 1.32%	**PASS**
Water content	Karl Fischer (USP <921>)	≤ 8.0%	3.9%	**PASS**
Counter-ion: acetate	Ion chromatography	Report (3.0–15.0%)	7.7%	**PASS**
Net peptide content	Amino-acid analysis	≥ 80.0%	86.7%	**PASS**
Bacterial endotoxin	LAL kinetic (USP <85>)	< 5.0 EU/mg	0.04 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 (≥ 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.

DCJ.

Dr. Chen Jian
Analyst · 13 Jun 2026 · Zhongxi Research Institute

DFH.

Dr. Fang Hong (QC Manager)
Approved by · 13 Jun 2026 · Zhongxi Research Institute

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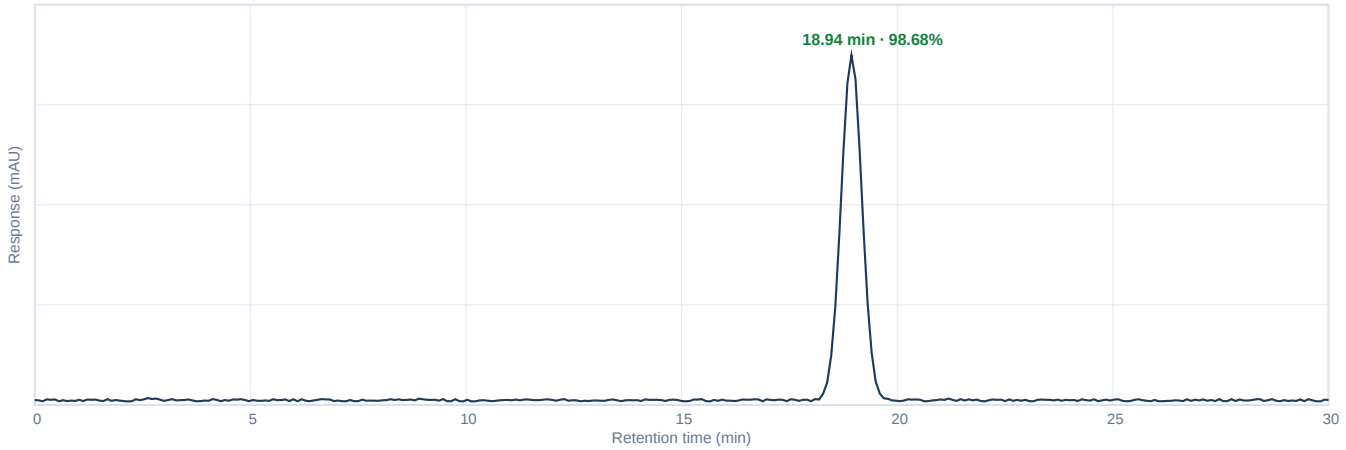
APPENDIX — ANALYTICAL RAW DATA

Cagrilintide 10mg · Lot ZX260512-693 · Cert. ZXR-COA-2026-36819

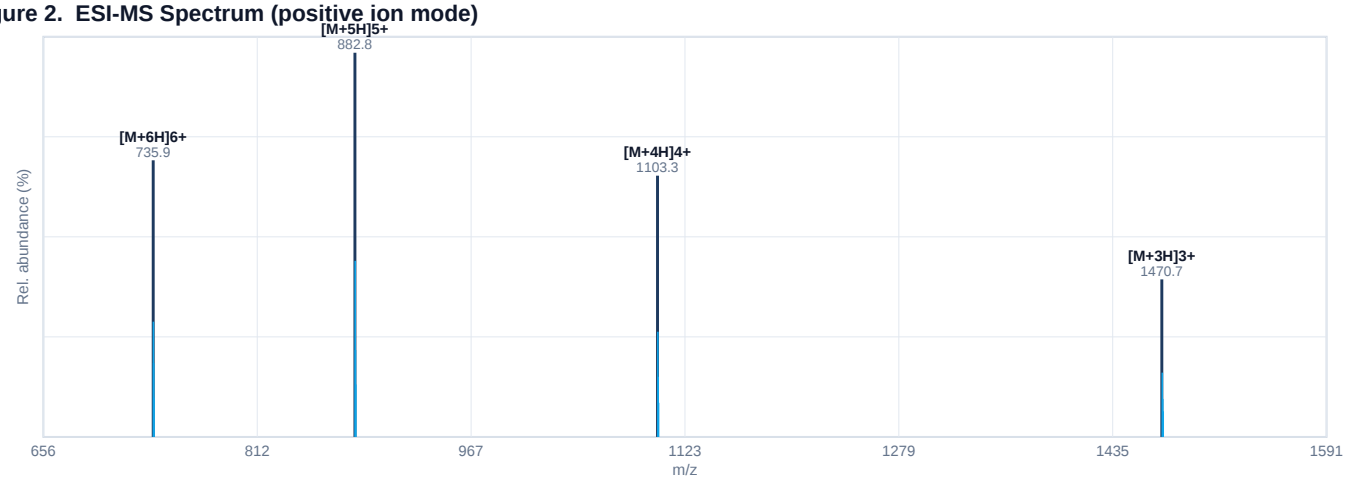
Scan to verify

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



Peak #	RT (min)	Area (μV·s)	Area %	Assignment
1	18.94	960267	98.68	Main (target)
2	2.65	5552	0.54	Impurity / related substance
3	9.06	4290	0.42	Impurity / related substance
4	21.06	3723	0.34	Impurity / related substance
5	6.01	216	0.02	Impurity / related substance

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



Interpretation

Identity confirmed by ESI-MS. Observed ions [M+3H]3+ 1470.7, [M+4H]4+ 1103.3, [M+5H]5+ 882.8, [M+6H]6+ 735.9 deconvolute to a neutral monoisotopic-average mass of 4409.09 Da (theoretical 4409.06 Da; mass error 7 ppm), consistent with Cagrilintide. 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.

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CERTIFICATE OF ANALYSIS

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PASS
QC released for dispatch

Scan to verify

NAD+ — 500mg

Nicotinamide Adenine Dinucleotide

1. PRODUCT IDENTIFICATION

Synonym	Nicotinamide Adenine Dinucleotide	**Label claim**	500mg
Sequence / structure	—	**Lot / Batch**	ZX260512-426 / B10347
Mol. formula	C21H27N7O14P2	**Manufacture date**	19 May 2026
Mol. weight	663.43 g/mol	**Date of analysis**	29 May 2026
CAS number	53-84-9	**Storage**	−20 °C, dark, desiccated
Salt form	Free base / N/A		

2. ANALYTICAL TEST RESULTS

Test	Method	Specification	Result	Verdict
Appearance	Visual	Per monograph	White to pale-yellow hygroscopic powder	**PASS**
Identity	LC-MS + ^{1}H-NMR	Matches 663.43 Da & ref	663.44 Da; conforms	**PASS**
Assay / Purity	RP-HPLC	≥ 98.0%	98.46%	**PASS**
Related substances	RP-HPLC	Total ≤ 2.0%	1.54%	**PASS**
Water content	Karl Fischer	≤ 5.0%	4.0%	**PASS**
Residual solvents	GC head-space (ICH Q3C)	Conforms	Conforms	**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 (≥ 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.

DZL.

Dr. Zhao Liang
Analyst · 29 May 2026 · Zhongxi Research Institute

DGT.

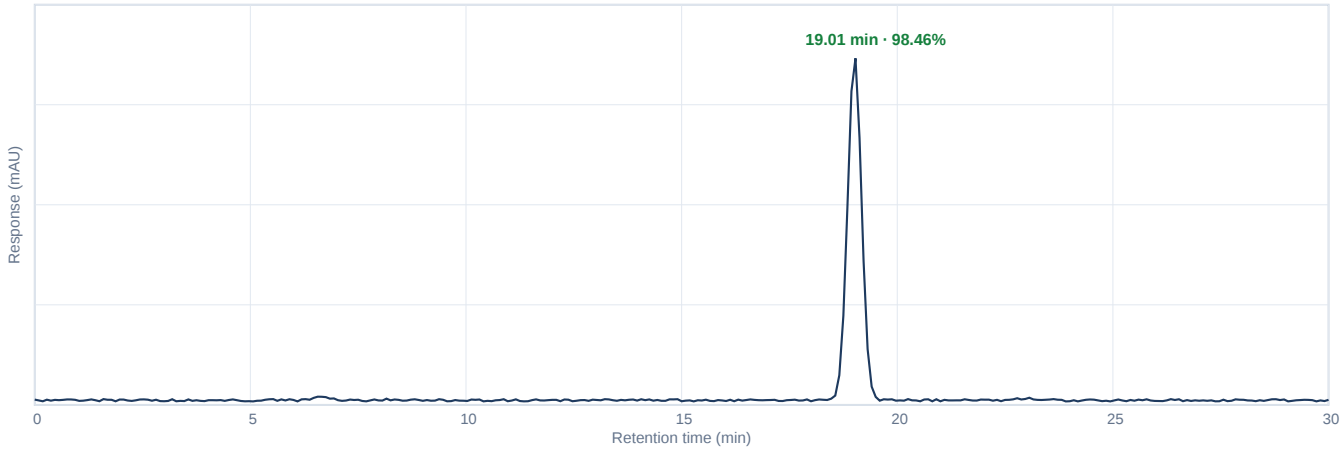
Dr. Guo Tao (QC Manager)
Approved by · 29 May 2026 · Zhongxi Research Institute

APPENDIX — ANALYTICAL RAW DATA

NAD+ 500mg · Lot ZX260512-426 · Cert. ZXR-COA-2026-56900

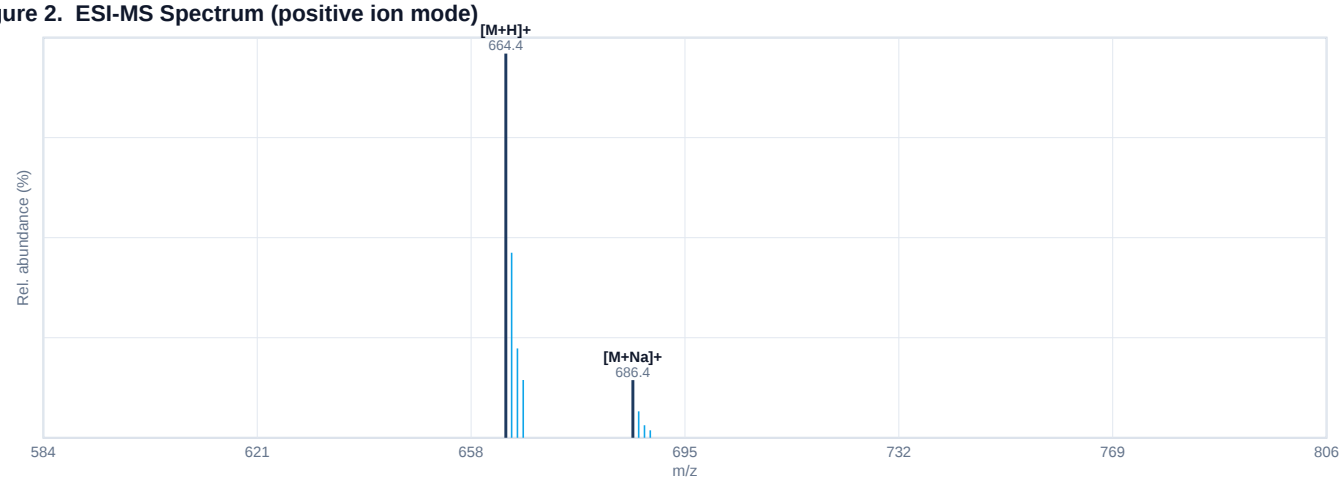
Scan to verify

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



Peak #	RT (min)	Area (µV·s)	Area %	Assignment
1	19.01	1058384	98.46	Main (target)
2	6.66	7900	0.86	Impurity / related substance
3	22.90	5764	0.54	Impurity / related substance
4	8.13	1423	0.14	Impurity / related substance

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



Interpretation

Identity confirmed by ESI-MS. Observed ions [M+H]+ 664.4, [M+Na]+ 686.4 deconvolute to a neutral monoisotopic-average mass of 663.44 Da (theoretical 663.43 Da; mass error 15 ppm), consistent with NAD+. 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.

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CERTIFICATE OF ANALYSIS

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PASS
QC released for dispatch

Scan to verify

MOTS-C — 10mg

Mitochondrial ORF

1. PRODUCT IDENTIFICATION

Synonym	Mitochondrial ORF	**Label claim**	10mg
Sequence / structure	Met-Arg-Trp-Gln-Glu-Met-Gly-Tyr-Ile-Phe-Tyr-Pro-Arg-Lys-Leu-Arg	**Lot / Batch**	ZX260512-593 / B40613
Mol. formula	C101H152N28O22S2	**Manufacture date**	30 May 2026
Mol. weight	2174.62 g/mol	**Date of analysis**	2 Jun 2026
CAS number	1627580-64-6	**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 2174.62 Da	2174.60 Da (Δ -9 ppm)	**PASS**
Purity	RP-HPLC, UV 220 nm	≥ 98.0% area	99.15%	**PASS**
Related substances	RP-HPLC	Single ≤1.0 / Total ≤2.0%	0.43 / 0.85%	**PASS**
Water content	Karl Fischer (USP <921>)	≤ 8.0%	1.6%	**PASS**
Counter-ion: acetate	Ion chromatography	Report (3.0–15.0%)	8.3%	**PASS**
Net peptide content	Amino-acid analysis	≥ 80.0%	88.9%	**PASS**
Bacterial endotoxin	LAL kinetic (USP <85>)	< 5.0 EU/mg	0.06 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 (≥ 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.

DXP.

Dr. Xu Ping
Analyst · 2 Jun 2026 · Zhongxi Research Institute

DFH.

Dr. Fang Hong (QC Manager)
Approved by · 2 Jun 2026 · Zhongxi Research Institute

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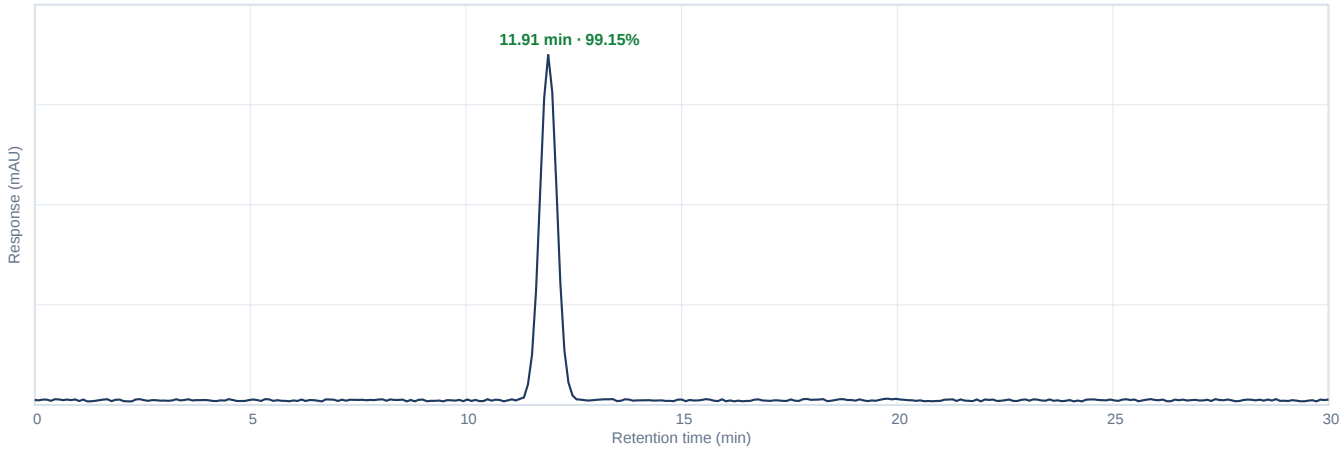
APPENDIX — ANALYTICAL RAW DATA

MOTS-C 10mg · Lot ZX260512-593 · Cert. ZXR-COA-2026-98080

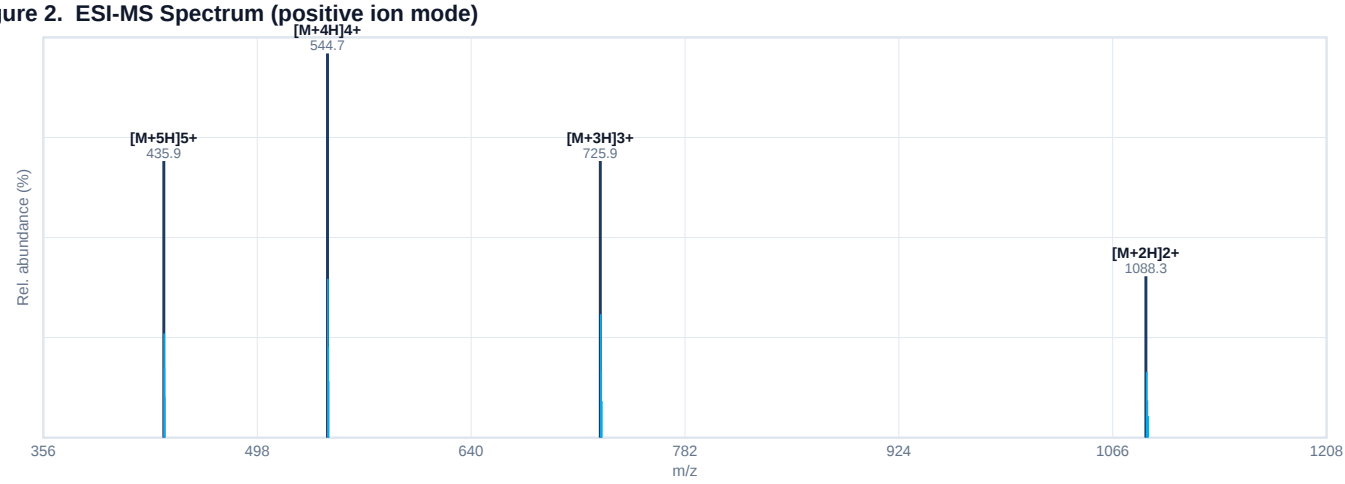
Scan to verify

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



Peak #	RT (min)	Area (µV·s)	Area %	Assignment
1	11.91	1042588	99.15	Main (target)
2	19.73	4281	0.43	Impurity / related substance
3	18.03	2288	0.24	Impurity / related substance

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



Interpretation

Identity confirmed by ESI-MS. Observed ions [M+2H]2+ 1088.3, [M+3H]3+ 725.9, [M+4H]4+ 544.7, [M+5H]5+ 435.9 deconvolute to a neutral monoisotopic-average mass of 2174.60 Da (theoretical 2174.62 Da; mass error -9 ppm), consistent with MOTS-C. 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.

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PASS
QC released for dispatch

Scan to verify

MOTS-C — 50mg

Mitochondrial ORF

1. PRODUCT IDENTIFICATION

Synonym	Mitochondrial ORF	**Label claim**	50mg
Sequence / structure	Met-Arg-Trp-Gln-Glu-Met-Gly-Tyr-Ile-Phe-Tyr-Pro-Arg-Lys-Leu-Arg	**Lot / Batch**	ZX260512-865 / B82357
Mol. formula	C101H152N28O22S2	**Manufacture date**	27 May 2026
Mol. weight	2174.62 g/mol	**Date of analysis**	1 Jun 2026
CAS number	1627580-64-6	**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 2174.62 Da	2174.60 Da (Δ -9 ppm)	**PASS**
Purity	RP-HPLC, UV 220 nm	≥ 98.0% area	99.09%	**PASS**
Related substances	RP-HPLC	Single ≤1.0 / Total ≤2.0%	0.46 / 0.91%	**PASS**
Water content	Karl Fischer (USP <921>)	≤ 8.0%	1.6%	**PASS**
Counter-ion: acetate	Ion chromatography	Report (3.0–15.0%)	6.0%	**PASS**
Net peptide content	Amino-acid analysis	≥ 80.0%	91.4%	**PASS**
Bacterial endotoxin	LAL kinetic (USP <85>)	< 5.0 EU/mg	0.14 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 (≥ 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.

DZL.

Dr. Zhao Liang
Analyst · 1 Jun 2026 · Zhongxi Research Institute

DLX.

Dr. Lin Xia (QC Manager)
Approved by · 1 Jun 2026 · Zhongxi Research Institute

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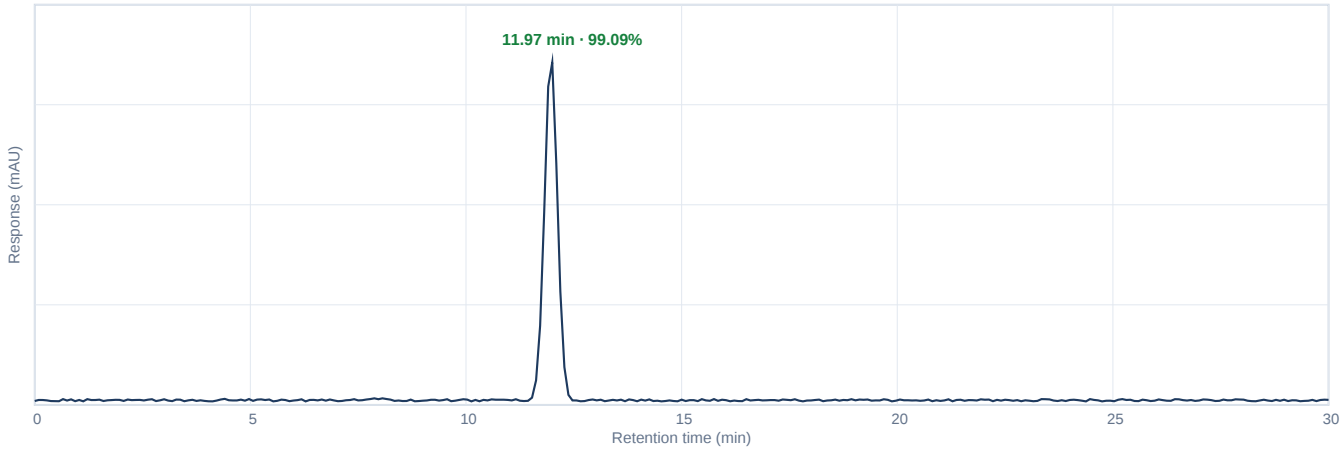
APPENDIX — ANALYTICAL RAW DATA

MOTS-C 50mg · Lot ZX260512-865 · Cert. ZXR-COA-2026-58102

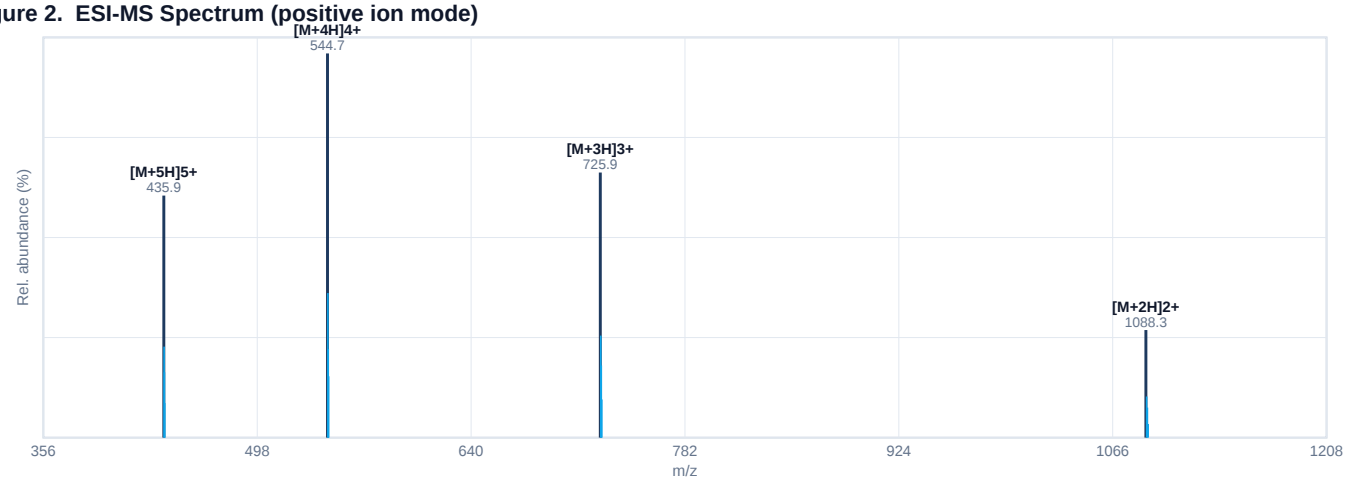
Scan to verify

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



Peak #	RT (min)	Area (µV·s)	Area %	Assignment
1	11.97	1044577	99.09	Main (target)
2	7.84	4763	0.46	Impurity / related substance
3	4.68	2753	0.26	Impurity / related substance

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



Interpretation

Identity confirmed by ESI-MS. Observed ions [M+2H]2+ 1088.3, [M+3H]3+ 725.9, [M+4H]4+ 544.7, [M+5H]5+ 435.9 deconvolute to a neutral monoisotopic-average mass of 2174.60 Da (theoretical 2174.62 Da; mass error -9 ppm), consistent with MOTS-C. 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.

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CERTIFICATE OF ANALYSIS

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PASS
QC released for dispatch

Scan to verify

SS-31 — 10mg

Elamipretide

1. PRODUCT IDENTIFICATION

Synonym	Elamipretide	**Label claim**	10mg
Sequence / structure	D-Arg-Dmt-Lys-Phe-NH2	**Lot / Batch**	ZX260512-299 / B51885
Mol. formula	C32H49N9O5	**Manufacture date**	24 May 2026
Mol. weight	639.79 g/mol	**Date of analysis**	30 May 2026
CAS number	736992-21-5	**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 639.79 Da	639.79 Da (Δ 0 ppm)	**PASS**
Purity	RP-HPLC, UV 220 nm	≥ 98.0% area	99.52%	**PASS**
Related substances	RP-HPLC	Single ≤1.0 / Total ≤2.0%	0.24 / 0.48%	**PASS**
Water content	Karl Fischer (USP <921>)	≤ 8.0%	1.4%	**PASS**
Counter-ion: acetate	Ion chromatography	Report (3.0–15.0%)	5.1%	**PASS**
Net peptide content	Amino-acid analysis	≥ 80.0%	91.7%	**PASS**
Bacterial endotoxin	LAL kinetic (USP <85>)	< 5.0 EU/mg	0.08 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 (≥ 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 · 30 May 2026 · Zhongxi Research Institute

DFH.

Dr. Fang Hong (QC Manager)
Approved by · 30 May 2026 · Zhongxi Research Institute

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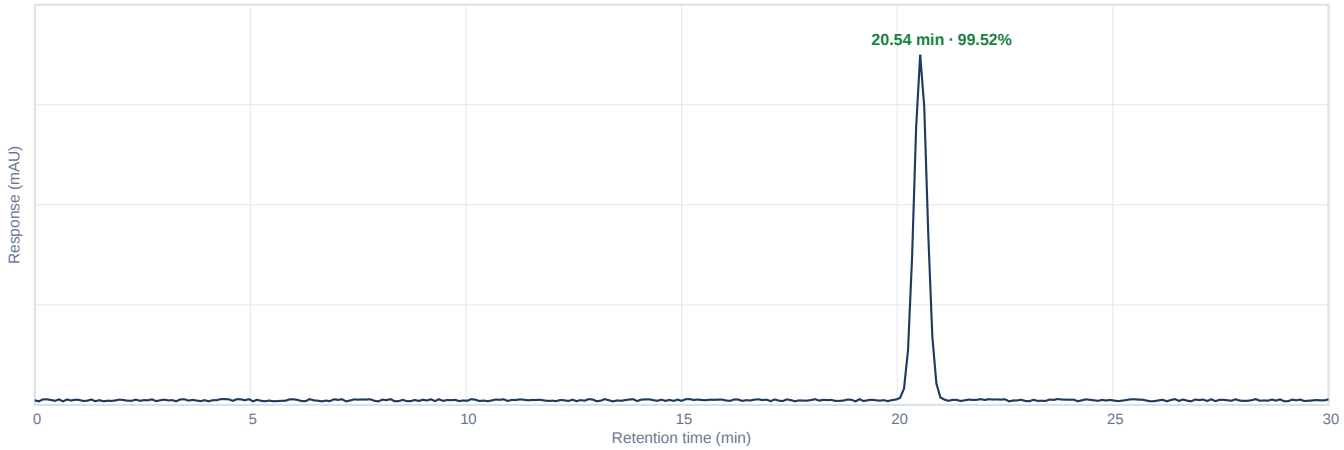
APPENDIX — ANALYTICAL RAW DATA

SS-31 10mg · Lot ZX260512-299 · Cert. ZXR-COA-2026-60796

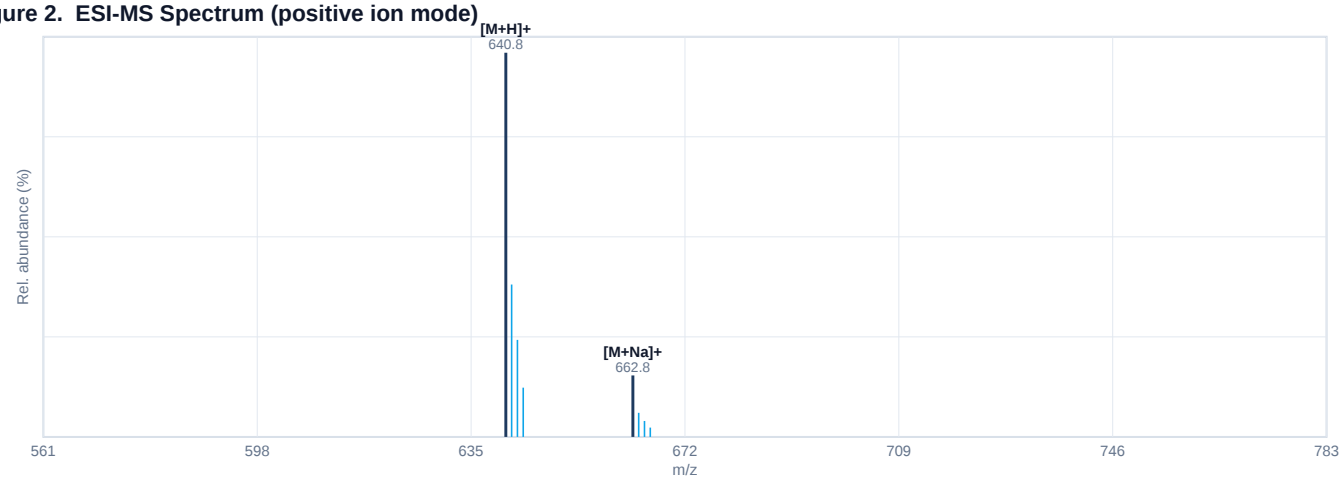
Scan to verify

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



Peak #	RT (min)	Area (µV·s)	Area %	Assignment
1	20.54	1069143	99.52	Main (target)
2	16.77	2382	0.22	Impurity / related substance
3	23.82	1884	0.18	Impurity / related substance
4	2.66	565	0.06	Impurity / related substance
5	9.06	192	0.02	Impurity / related substance

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



Interpretation

Identity confirmed by ESI-MS. Observed ions [M+H]+ 640.8, [M+Na]+ 662.8 deconvolute to a neutral monoisotopic-average mass of 639.79 Da (theoretical 639.79 Da; mass error 0 ppm), consistent with SS-31. 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.

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CERTIFICATE OF ANALYSIS

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PASS
QC released for dispatch

Scan to verify

SS-31 — 40mg

Elamipretide

1. PRODUCT IDENTIFICATION

Synonym	Elamipretide	**Label claim**	40mg
Sequence / structure	D-Arg-Dmt-Lys-Phe-NH2	**Lot / Batch**	ZX260512-629 / B83603
Mol. formula	C32H49N9O5	**Manufacture date**	13 May 2026
Mol. weight	639.79 g/mol	**Date of analysis**	16 May 2026
CAS number	736992-21-5	**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 639.79 Da	639.79 Da (Δ 0 ppm)	**PASS**
Purity	RP-HPLC, UV 220 nm	≥ 98.0% area	98.41%	**PASS**
Related substances	RP-HPLC	Single ≤1.0 / Total ≤2.0%	0.90 / 1.59%	**PASS**
Water content	Karl Fischer (USP <921>)	≤ 8.0%	2.7%	**PASS**
Counter-ion: acetate	Ion chromatography	Report (3.0–15.0%)	9.2%	**PASS**
Net peptide content	Amino-acid analysis	≥ 80.0%	86.4%	**PASS**
Bacterial endotoxin	LAL kinetic (USP <85>)	< 5.0 EU/mg	0.06 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 (≥ 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.

DHR.

Dr. Huang Rui
Analyst · 16 May 2026 · Zhongxi Research Institute

DFH.

Dr. Fang Hong (QC Manager)
Approved by · 16 May 2026 · Zhongxi Research Institute

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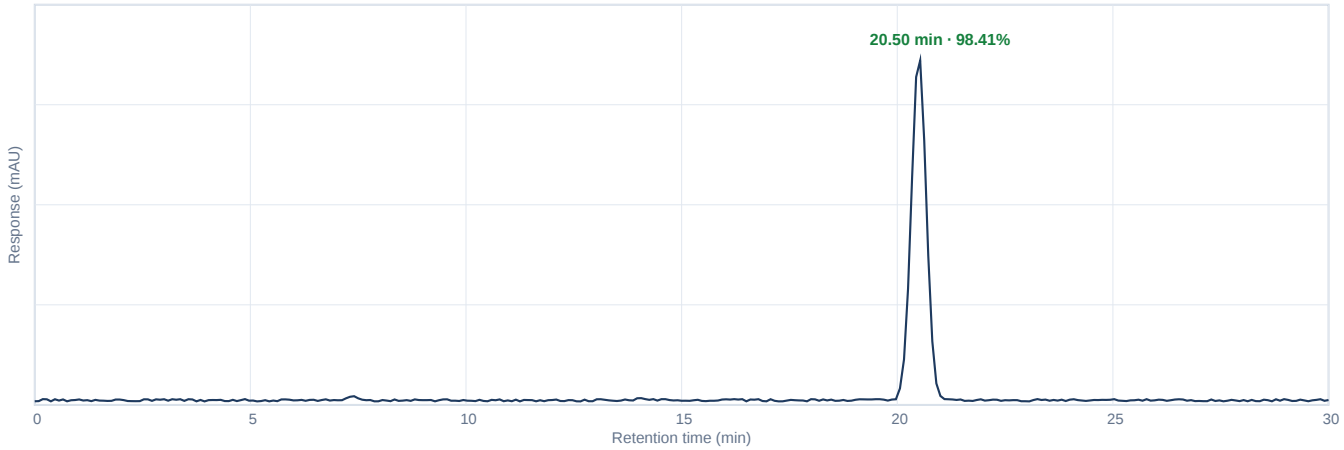
APPENDIX — ANALYTICAL RAW DATA

SS-31 40mg · Lot ZX260512-629 · Cert. ZXR-COA-2026-90116

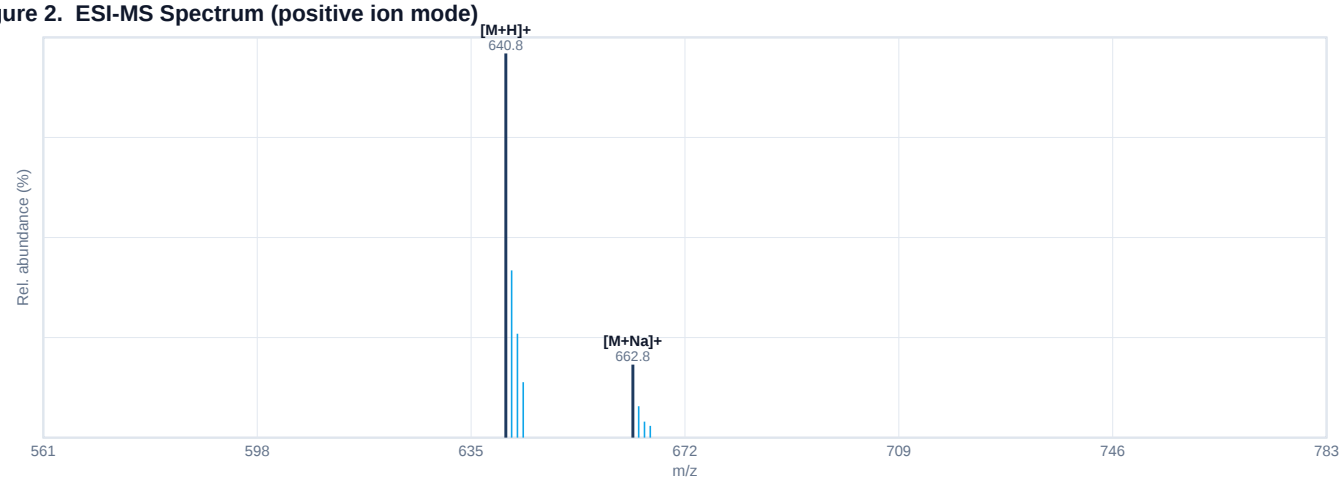
Scan to verify

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



Peak #	RT (min)	Area (μV·s)	Area %	Assignment
1	20.50	1009631	98.41	Main (target)
2	7.39	9524	0.90	Impurity / related substance
3	14.09	3912	0.40	Impurity / related substance

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



Interpretation

Identity confirmed by ESI-MS. Observed ions [M+H]+ 640.8, [M+Na]+ 662.8 deconvolute to a neutral monoisotopic-average mass of 639.79 Da (theoretical 639.79 Da; mass error 0 ppm), consistent with SS-31. 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.

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CERTIFICATE OF ANALYSIS

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PASS
QC released for dispatch

Scan to verify

Glutathione — 600mg

Reduced Glutathione

1. PRODUCT IDENTIFICATION

Synonym	Reduced Glutathione	**Label claim**	600mg
Sequence / structure	—	**Lot / Batch**	ZX260512-956 / B31965
Mol. formula	C10H17N3O6S	**Manufacture date**	13 May 2026
Mol. weight	307.32 g/mol	**Date of analysis**	23 May 2026
CAS number	70-18-8	**Storage**	−20 °C, dark, desiccated
Salt form	Free base / N/A		

2. ANALYTICAL TEST RESULTS

Test	Method	Specification	Result	Verdict
Appearance	Visual	Per monograph	White crystalline powder	PASS
Identity	LC-MS + ^{1}H-NMR	Matches 307.32 Da & ref	307.32 Da; conforms	PASS
Assay / Purity	RP-HPLC	≥ 98.0%	98.36%	PASS
Related substances	RP-HPLC	Total ≤ 2.0%	1.64%	PASS
Water content	Karl Fischer	≤ 5.0%	4.3%	PASS
Residual solvents	GC head-space (ICH Q3C)	Conforms	Conforms	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 (≥ 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.

DXP.

Dr. Xu Ping
Analyst · 23 May 2026 · Zhongxi Research Institute

DLX.

Dr. Lin Xia (QC Manager)
Approved by · 23 May 2026 · Zhongxi Research Institute

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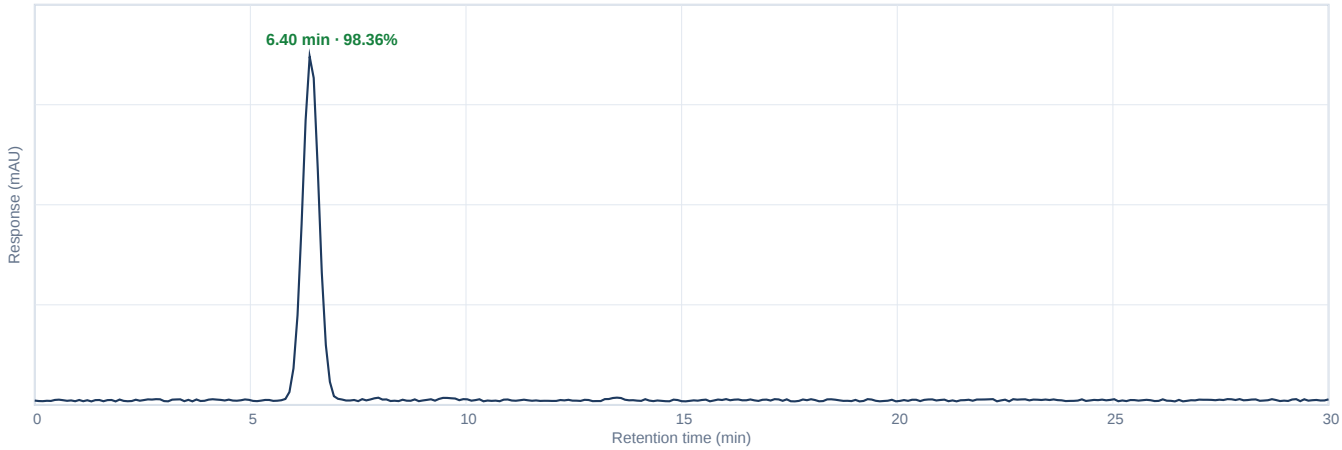
APPENDIX — ANALYTICAL RAW DATA

Glutathione 600mg · Lot ZX260512-956 · Cert. ZXR-COA-2026-84021

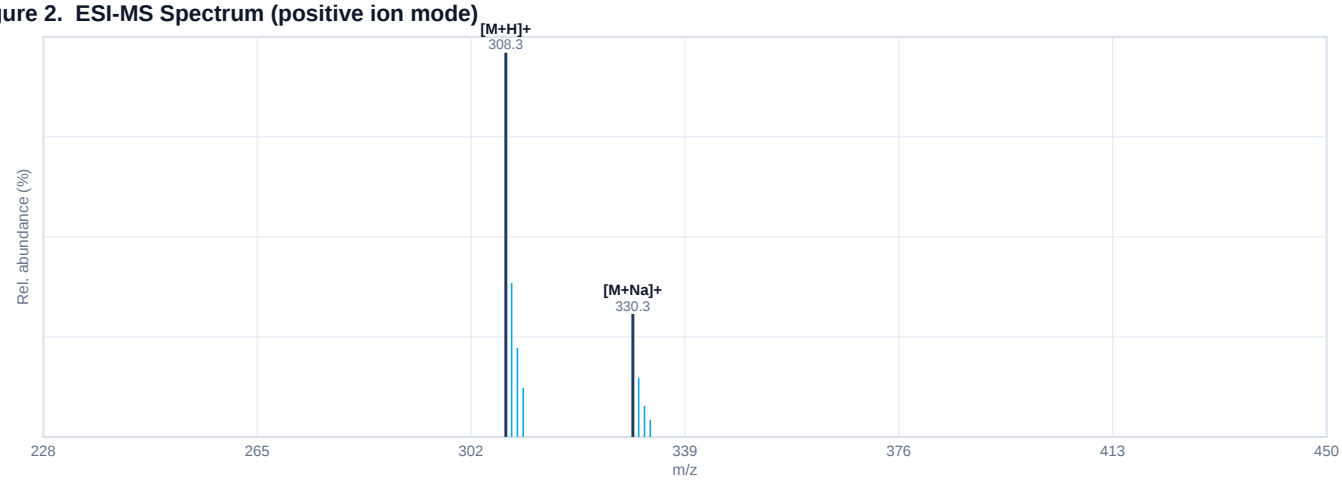
Scan to verify

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



Peak #	RT (min)	Area (µV·s)	Area %	Assignment
1	6.40	945191	98.36	Main (target)
2	7.95	6190	0.62	Impurity / related substance
3	13.51	5566	0.51	Impurity / related substance
4	9.55	4551	0.46	Impurity / related substance
5	23.29	465	0.05	Impurity / related substance

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



Interpretation

Identity confirmed by ESI-MS. Observed ions [M+H]+ 308.3, [M+Na]+ 330.3 deconvolute to a neutral monoisotopic-average mass of 307.32 Da (theoretical 307.32 Da; mass error 0 ppm), consistent with Glutathione. 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.

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CERTIFICATE OF ANALYSIS

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QC released for dispatch

Scan to verify

Glutathione — 1500mg

Reduced Glutathione

1. PRODUCT IDENTIFICATION

Synonym	Reduced Glutathione	**Label claim**	1500mg
Sequence / structure	—	**Lot / Batch**	ZX260512-575 / B39539
Mol. formula	C10H17N3O6S	**Manufacture date**	18 May 2026
Mol. weight	307.32 g/mol	**Date of analysis**	1 Jun 2026
CAS number	70-18-8	**Storage**	−20 °C, dark, desiccated
Salt form	Free base / N/A		

2. ANALYTICAL TEST RESULTS

Test	Method	Specification	Result	Verdict
Appearance	Visual	Per monograph	White crystalline powder	PASS
Identity	LC-MS + ^{1}H-NMR	Matches 307.32 Da & ref	307.32 Da; conforms	PASS
Assay / Purity	RP-HPLC	≥ 98.0%	98.68%	PASS
Related substances	RP-HPLC	Total ≤ 2.0%	1.32%	PASS
Water content	Karl Fischer	≤ 5.0%	3.2%	PASS
Residual solvents	GC head-space (ICH Q3C)	Conforms	Conforms	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 (≥ 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.

DHR.

Dr. Huang Rui
Analyst · 1 Jun 2026 · Zhongxi Research Institute

DFH.

Dr. Fang Hong (QC Manager)
Approved by · 1 Jun 2026 · Zhongxi Research Institute

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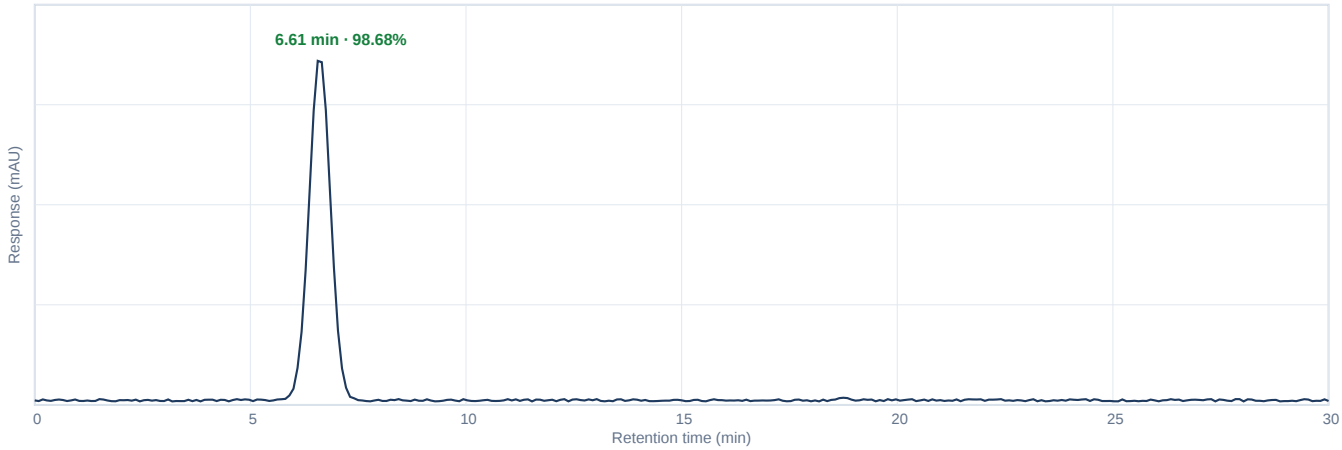
APPENDIX — ANALYTICAL RAW DATA

Glutathione 1500mg · Lot ZX260512-575 · Cert. ZXR-COA-2026-32432

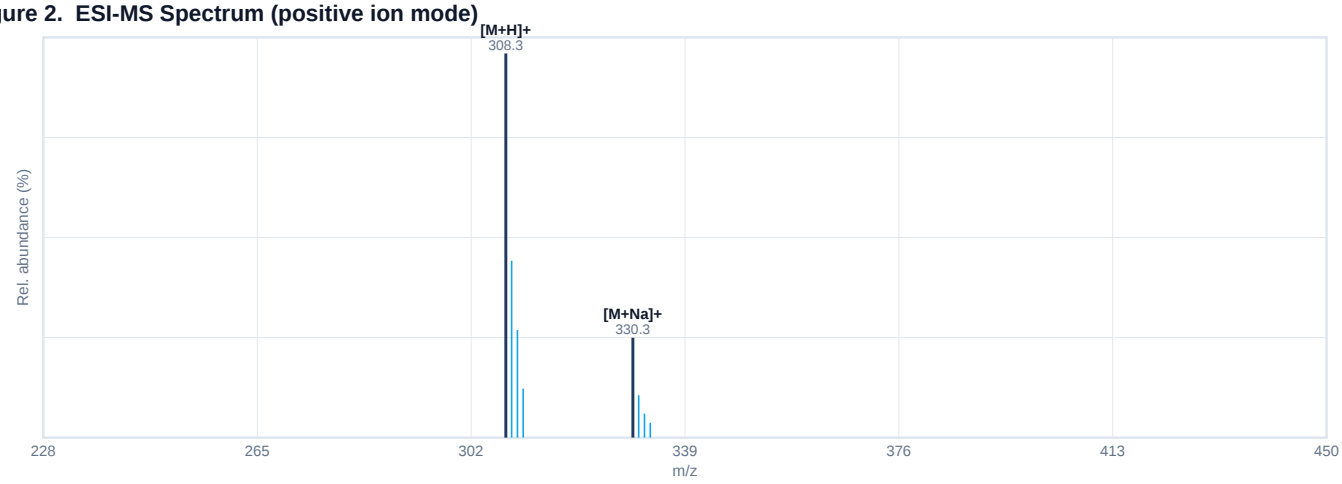
Scan to verify

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



Peak #	RT (min)	Area (μV·s)	Area %	Assignment
1	6.61	927661	98.68	Main (target)
2	18.79	5894	0.63	Impurity / related substance
3	20.28	983	0.10	Impurity / related substance

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



Interpretation

Identity confirmed by ESI-MS. Observed ions [M+H]+ 308.3, [M+Na]+ 330.3 deconvolute to a neutral monoisotopic-average mass of 307.32 Da (theoretical 307.32 Da; mass error 0 ppm), consistent with Glutathione. 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.

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PASS
QC released for dispatch

Scan to verify

Thymalin — 20mg

Thymic Peptide

1. PRODUCT IDENTIFICATION

Synonym	Thymic Peptide	**Label claim**	20mg
Sequence / structure	Polypeptide complex	**Lot / Batch**	ZX260512-592 / B15410
Mol. formula	C33H54N12O15	**Manufacture date**	19 May 2026
Mol. weight	858.92 g/mol	**Date of analysis**	27 May 2026
CAS number	63958-90-7	**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 858.92 Da	858.92 Da (Δ 0 ppm)	**PASS**
Purity	RP-HPLC, UV 220 nm	≥ 98.0% area	99.58%	**PASS**
Related substances	RP-HPLC	Single ≤1.0 / Total ≤2.0%	0.23 / 0.42%	**PASS**
Water content	Karl Fischer (USP <921>)	≤ 8.0%	3.3%	**PASS**
Counter-ion: acetate	Ion chromatography	Report (3.0–15.0%)	5.2%	**PASS**
Net peptide content	Amino-acid analysis	≥ 80.0%	90.2%	**PASS**
Bacterial endotoxin	LAL kinetic (USP <85>)	< 5.0 EU/mg	0.09 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 (≥ 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.

DHR.

Dr. Huang Rui
Analyst · 27 May 2026 · Zhongxi Research Institute

DFH.

Dr. Fang Hong (QC Manager)
Approved by · 27 May 2026 · Zhongxi Research Institute

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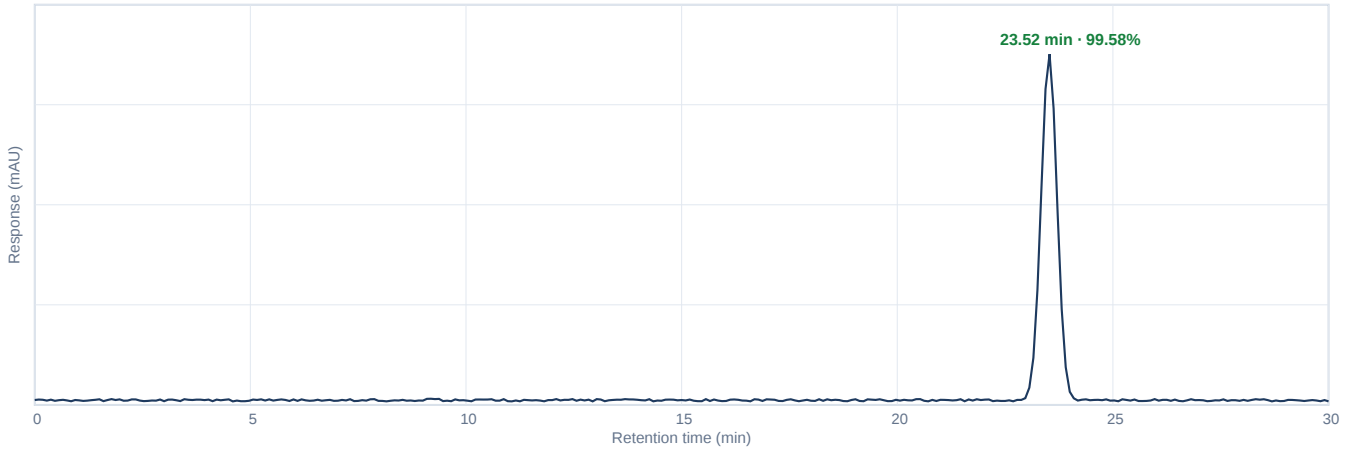
APPENDIX — ANALYTICAL RAW DATA

Thymalin 20mg · Lot ZX260512-592 · Cert. ZXR-COA-2026-14334

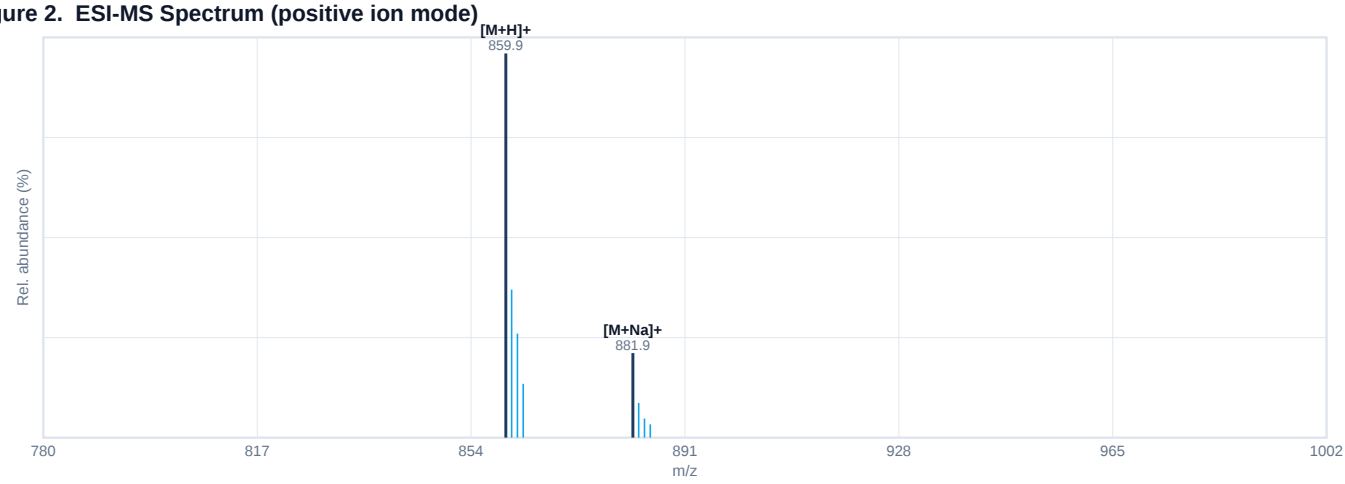
Scan to verify

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



Peak #	RT (min)	Area (µV·s)	Area %	Assignment
1	23.52	1082356	99.58	Main (target)
2	9.08	2399	0.23	Impurity / related substance
3	21.89	878	0.08	Impurity / related substance

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



Interpretation

Identity confirmed by ESI-MS. Observed ions [M+H]+ 859.9, [M+Na]+ 881.9 deconvolute to a neutral monoisotopic-average mass of 858.92 Da (theoretical 858.92 Da; mass error 0 ppm), consistent with Thymalin. 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.

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CERTIFICATE OF ANALYSIS

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PASS
QC released for dispatch

Scan to verify

Thymosin Alpha-1 — 10mg

Thymosin Alpha 1

1. PRODUCT IDENTIFICATION

Synonym	Thymosin Alpha 1	**Label claim**	10mg
Sequence / structure	Ac-SDAAVDTSSEITTKDLKEKKEVVEEAEN	**Lot / Batch**	ZX260512-624 / B52720
Mol. formula	C129H215N33O55	**Manufacture date**	17 May 2026
Mol. weight	3108.29 g/mol	**Date of analysis**	20 May 2026
CAS number	62304-98-7	**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 3108.29 Da	3108.31 Da (Δ 6 ppm)	**PASS**
Purity	RP-HPLC, UV 220 nm	≥ 98.0% area	98.82%	**PASS**
Related substances	RP-HPLC	Single ≤1.0 / Total ≤2.0%	0.55 / 1.18%	**PASS**
Water content	Karl Fischer (USP <921>)	≤ 8.0%	3.0%	**PASS**
Counter-ion: acetate	Ion chromatography	Report (3.0–15.0%)	5.6%	**PASS**
Net peptide content	Amino-acid analysis	≥ 80.0%	89.3%	**PASS**
Bacterial endotoxin	LAL kinetic (USP <85>)	< 5.0 EU/mg	0.04 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 (≥ 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.

DXP.

Dr. Xu Ping
Analyst · 20 May 2026 · Zhongxi Research Institute

DLX.

Dr. Lin Xia (QC Manager)
Approved by · 20 May 2026 · Zhongxi Research Institute

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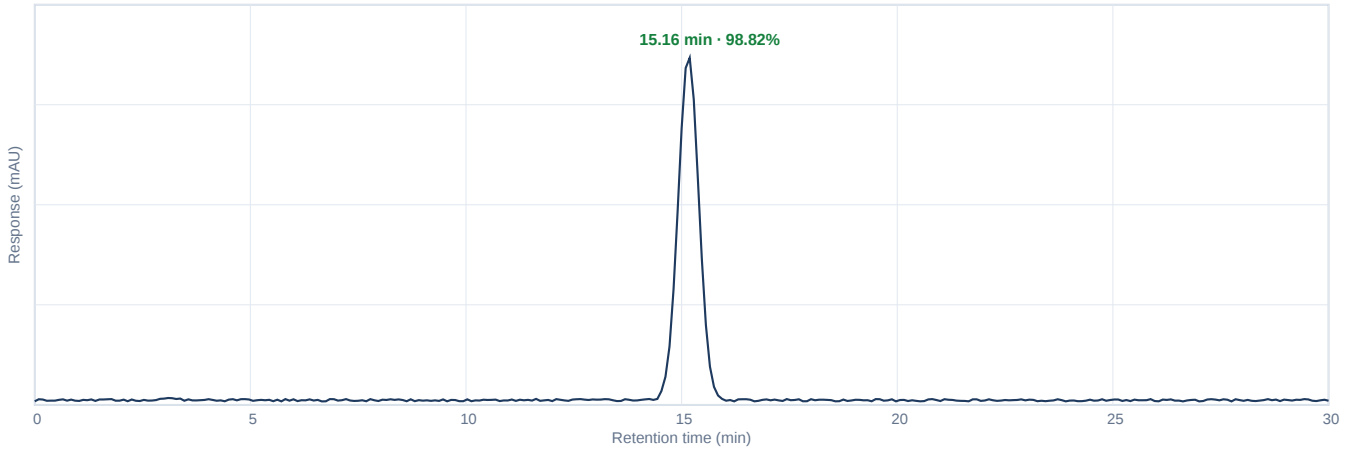
APPENDIX — ANALYTICAL RAW DATA

Thymosin Alpha-1 10mg · Lot ZX260512-624 · Cert. ZXR-COA-2026-44159

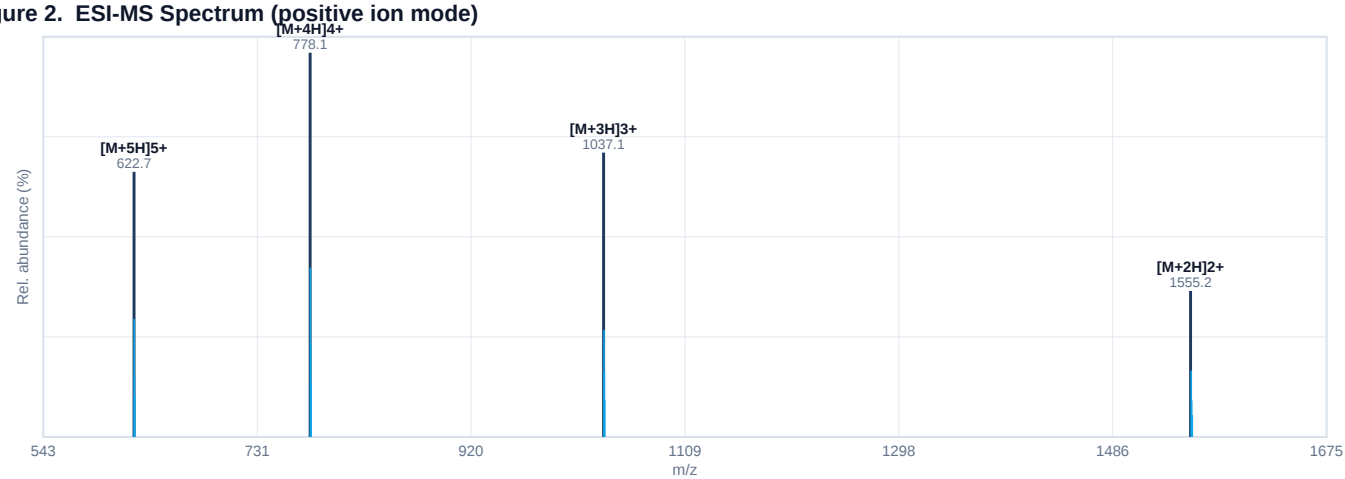
Scan to verify

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



Peak #	RT (min)	Area (µV·s)	Area %	Assignment
1	15.16	995421	98.82	Main (target)
2	3.17	5445	0.55	Impurity / related substance
3	11.41	1868	0.19	Impurity / related substance
4	4.83	207	0.02	Impurity / related substance
5	17.16	217	0.02	Impurity / related substance

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



Interpretation

Identity confirmed by ESI-MS. Observed ions [M+2H]2+ 1555.2, [M+3H]3+ 1037.1, [M+4H]4+ 778.1, [M+5H]5+ 622.7 deconvolute to a neutral monoisotopic-average mass of 3108.31 Da (theoretical 3108.29 Da; mass error 6 ppm), consistent with Thymosin Alpha-1. 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.

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CERTIFICATE OF ANALYSIS

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QC released for dispatch

Scan to verify

Thymosin Beta-4 — 10mg

TB4 Fragment

1. PRODUCT IDENTIFICATION

Synonym	TB4 Fragment	**Label claim**	10mg
Sequence / structure	Ac-SDKPDMAEIEKFDKSKLKKTETQEKNPLPSK ETIEQEKQAGES	**Lot / Batch**	ZX260512-464 / B83462
Mol. formula	C212H350N56O78S	**Manufacture date**	27 May 2026
Mol. weight	4963.44 g/mol	**Date of analysis**	1 Jun 2026
CAS number	77591-33-4	**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 4963.44 Da	4963.49 Da (Δ 10 ppm)	**PASS**
Purity	RP-HPLC, UV 220 nm	≥ 98.0% area	99.33%	**PASS**
Related substances	RP-HPLC	Single ≤1.0 / Total ≤2.0%	0.37 / 0.67%	**PASS**
Water content	Karl Fischer (USP <921>)	≤ 8.0%	3.6%	**PASS**
Counter-ion: acetate	Ion chromatography	Report (3.0–15.0%)	8.0%	**PASS**
Net peptide content	Amino-acid analysis	≥ 80.0%	87.6%	**PASS**
Bacterial endotoxin	LAL kinetic (USP <85>)	< 5.0 EU/mg	0.06 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 (≥ 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.

DZK.

Dr. Zhou Kai
Analyst · 1 Jun 2026 · Zhongxi Research Institute

DGT.

Dr. Guo Tao (QC Manager)
Approved by · 1 Jun 2026 · Zhongxi Research Institute

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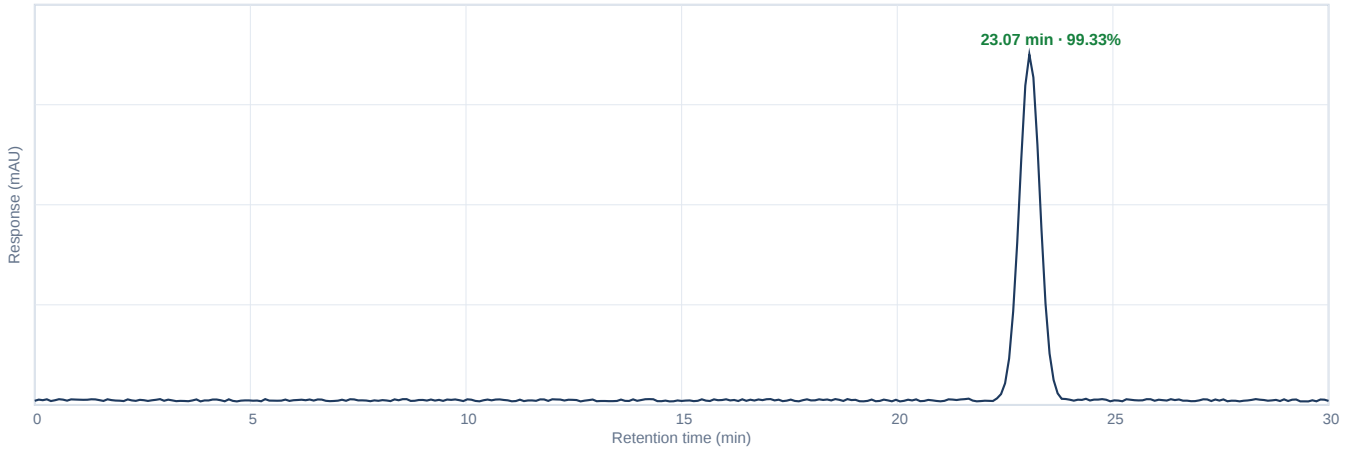
APPENDIX — ANALYTICAL RAW DATA

Thymosin Beta-4 10mg · Lot ZX260512-464 · Cert. ZXR-COA-2026-53124

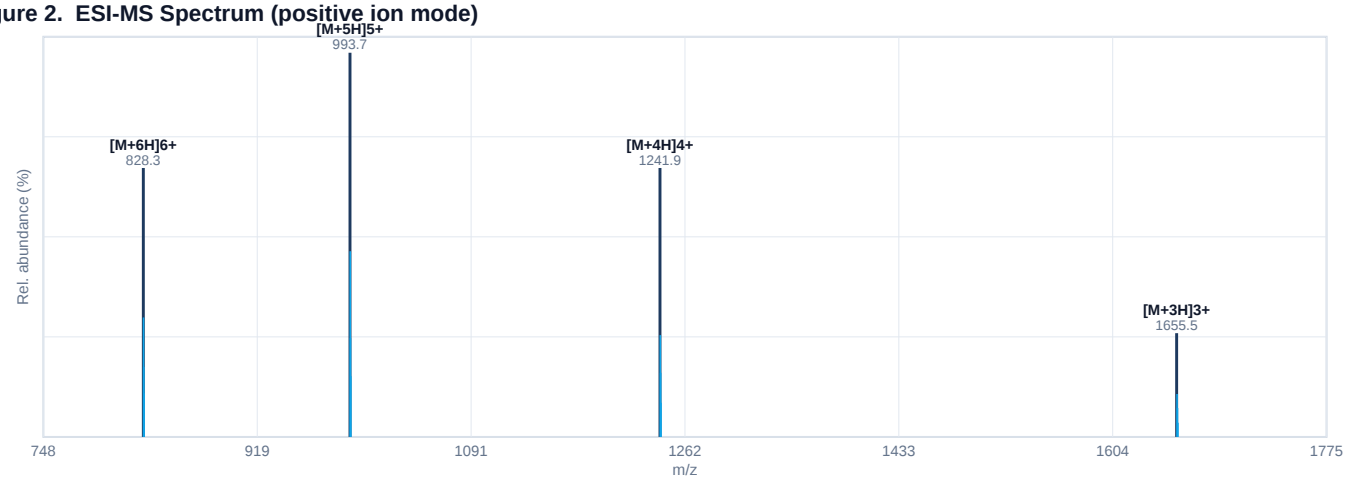
Scan to verify

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



Peak #	RT (min)	Area (µV·s)	Area %	Assignment
1	23.07	956037	99.33	Main (target)
2	16.90	2215	0.22	Impurity / related substance
3	21.57	1671	0.17	Impurity / related substance
4	24.46	1562	0.15	Impurity / related substance
5	18.09	1229	0.13	Impurity / related substance

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



Interpretation

Identity confirmed by ESI-MS. Observed ions [M+3H]3+ 1655.5, [M+4H]4+ 1241.9, [M+5H]5+ 993.7, [M+6H]6+ 828.3 deconvolute to a neutral monoisotopic-average mass of 4963.49 Da (theoretical 4963.44 Da; mass error 10 ppm), consistent with Thymosin Beta-4. 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.

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CERTIFICATE OF ANALYSIS

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PASS
QC released for dispatch

Scan to verify

KPV — 10mg

Alpha-MSH Fragment

1. PRODUCT IDENTIFICATION

Synonym	Alpha-MSH Fragment	**Label claim**	10mg
Sequence / structure	Lys-Pro-Val	**Lot / Batch**	ZX260512-350 / B93074
Mol. formula	C16H30N4O4	**Manufacture date**	28 May 2026
Mol. weight	342.44 g/mol	**Date of analysis**	31 May 2026
CAS number	67727-97-3	**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 342.44 Da	342.44 Da (Δ 0 ppm)	**PASS**
Purity	RP-HPLC, UV 220 nm	≥ 98.0% area	99.71%	**PASS**
Related substances	RP-HPLC	Single ≤1.0 / Total ≤2.0%	0.20 / 0.29%	**PASS**
Water content	Karl Fischer (USP <921>)	≤ 8.0%	3.5%	**PASS**
Counter-ion: acetate	Ion chromatography	Report (3.0–15.0%)	6.6%	**PASS**
Net peptide content	Amino-acid analysis	≥ 80.0%	88.3%	**PASS**
Bacterial endotoxin	LAL kinetic (USP <85>)	< 5.0 EU/mg	0.10 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 (≥ 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.

DHR.

Dr. Huang Rui
Analyst · 31 May 2026 · Zhongxi Research Institute

DFH.

Dr. Fang Hong (QC Manager)
Approved by · 31 May 2026 · Zhongxi Research Institute

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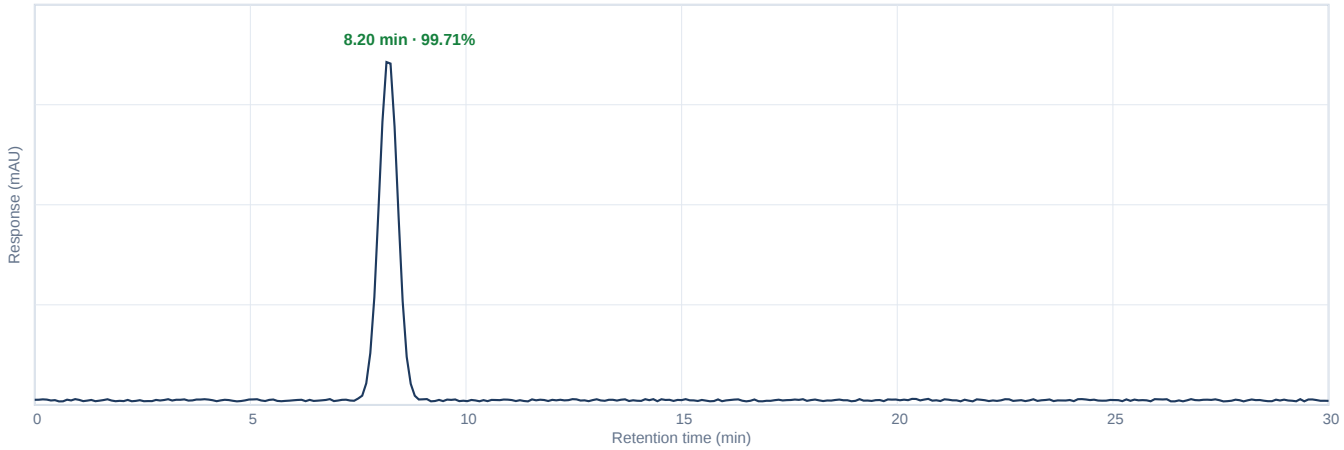
APPENDIX — ANALYTICAL RAW DATA

KPV 10mg · Lot ZX260512-350 · Cert. ZXR-COA-2026-87411

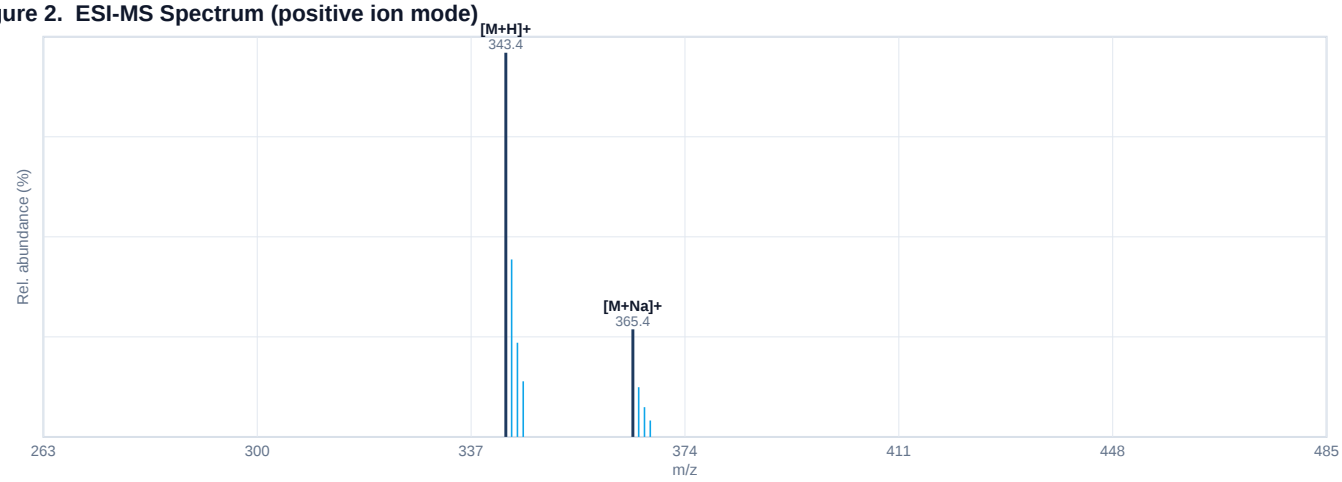
Scan to verify

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



Peak #	RT (min)	Area (µV·s)	Area %	Assignment
1	8.20	1094446	99.71	Main (target)
2	20.56	1391	0.13	Impurity / related substance
3	20.13	868	0.08	Impurity / related substance
4	5.64	470	0.05	Impurity / related substance
5	15.11	318	0.03	Impurity / related substance

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



Interpretation

Identity confirmed by ESI-MS. Observed ions [M+H]+ 343.4, [M+Na]+ 365.4 deconvolute to a neutral monoisotopic-average mass of 342.44 Da (theoretical 342.44 Da; mass error 0 ppm), consistent with KPV. 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.

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CERTIFICATE OF ANALYSIS

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PASS
QC released for dispatch

Scan to verify

Cartalax — 50mg

Cartilage Bioregulator

1. PRODUCT IDENTIFICATION

Synonym	Cartilage Bioregulator	**Label claim**	50mg
Sequence / structure	Ala-Glu-Asp	**Lot / Batch**	ZX260512-359 / B61925
Mol. formula	C12H19N3O8	**Manufacture date**	21 May 2026
Mol. weight	333.29 g/mol	**Date of analysis**	27 May 2026
CAS number	No CAS assigned	**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 333.29 Da	333.29 Da (Δ 0 ppm)	**PASS**
Purity	RP-HPLC, UV 220 nm	≥ 98.0% area	99.10%	**PASS**
Related substances	RP-HPLC	Single ≤1.0 / Total ≤2.0%	0.62 / 0.90%	**PASS**
Water content	Karl Fischer (USP <921>)	≤ 8.0%	2.2%	**PASS**
Counter-ion: acetate	Ion chromatography	Report (3.0–15.0%)	5.1%	**PASS**
Net peptide content	Amino-acid analysis	≥ 80.0%	92.0%	**PASS**
Bacterial endotoxin	LAL kinetic (USP <85>)	< 5.0 EU/mg	0.12 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 (≥ 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 · 27 May 2026 · Zhongxi Research Institute

DFH.

Dr. Fang Hong (QC Manager)
Approved by · 27 May 2026 · Zhongxi Research Institute

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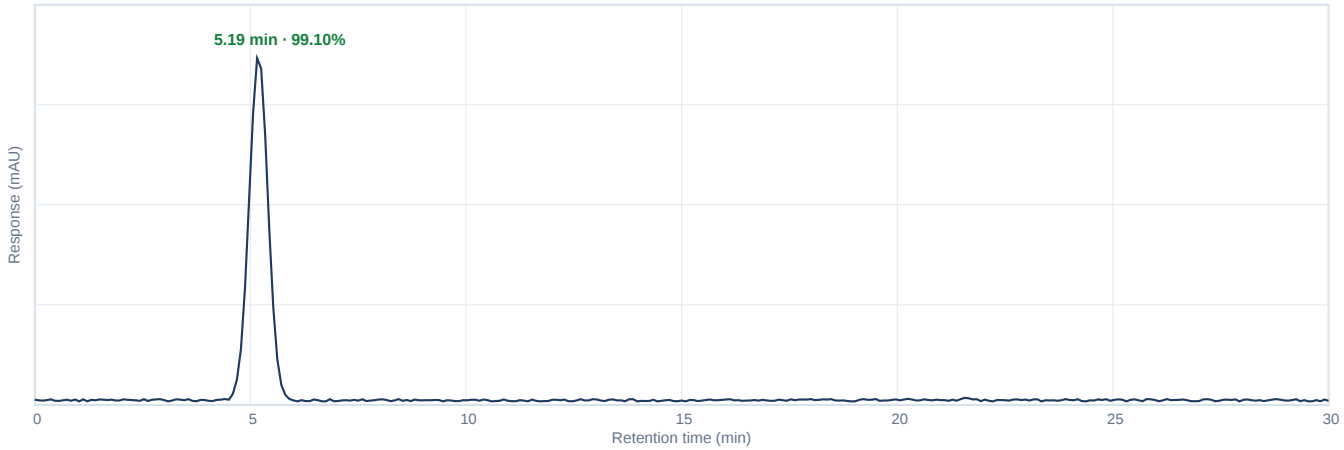
APPENDIX — ANALYTICAL RAW DATA

Cartalax 50mg · Lot ZX260512-359 · Cert. ZXR-COA-2026-11481

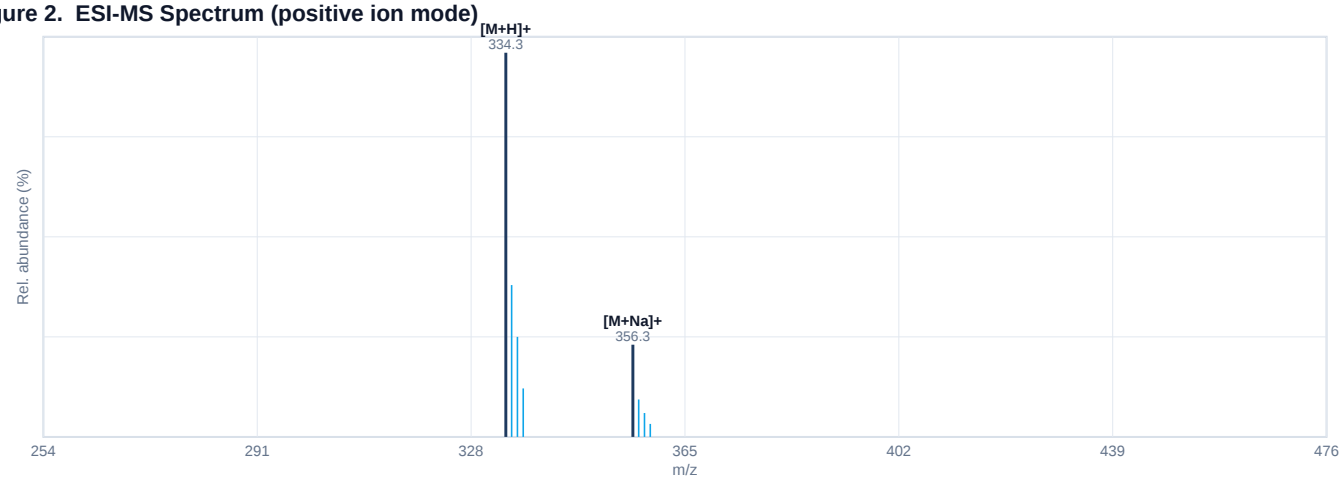
Scan to verify

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



Peak #	RT (min)	Area (µV·s)	Area %	Assignment
1	5.19	1058098	99.10	Main (target)
2	21.60	4400	0.42	Impurity / related substance
3	19.95	2569	0.24	Impurity / related substance
4	17.10	1640	0.15	Impurity / related substance
5	23.03	871	0.09	Impurity / related substance

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



Interpretation

Identity confirmed by ESI-MS. Observed ions [M+H]+ 334.3, [M+Na]+ 356.3 deconvolute to a neutral monoisotopic-average mass of 333.29 Da (theoretical 333.29 Da; mass error 0 ppm), consistent with Cartalax. 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.

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CERTIFICATE OF ANALYSIS

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PASS
QC released for dispatch

Scan to verify

Ovagen — 50mg

Liver Bioregulator

1. PRODUCT IDENTIFICATION

Synonym	Liver Bioregulator	**Label claim**	50mg
Sequence / structure	Glu-Asp-Leu	**Lot / Batch**	ZX260512-219 / B52715
Mol. formula	C15H25N3O8	**Manufacture date**	15 May 2026
Mol. weight	375.37 g/mol	**Date of analysis**	27 May 2026
CAS number	No CAS assigned	**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 375.37 Da	375.37 Da (Δ 0 ppm)	**PASS**
Purity	RP-HPLC, UV 220 nm	≥ 98.0% area	99.13%	**PASS**
Related substances	RP-HPLC	Single ≤1.0 / Total ≤2.0%	0.48 / 0.87%	**PASS**
Water content	Karl Fischer (USP <921>)	≤ 8.0%	3.1%	**PASS**
Counter-ion: acetate	Ion chromatography	Report (3.0–15.0%)	7.9%	**PASS**
Net peptide content	Amino-acid analysis	≥ 80.0%	87.3%	**PASS**
Bacterial endotoxin	LAL kinetic (USP <85>)	< 5.0 EU/mg	0.16 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 (≥ 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.

DSY.

Dr. Sun Yan
Analyst · 27 May 2026 · Zhongxi Research Institute

DGT.

Dr. Guo Tao (QC Manager)
Approved by · 27 May 2026 · Zhongxi Research Institute

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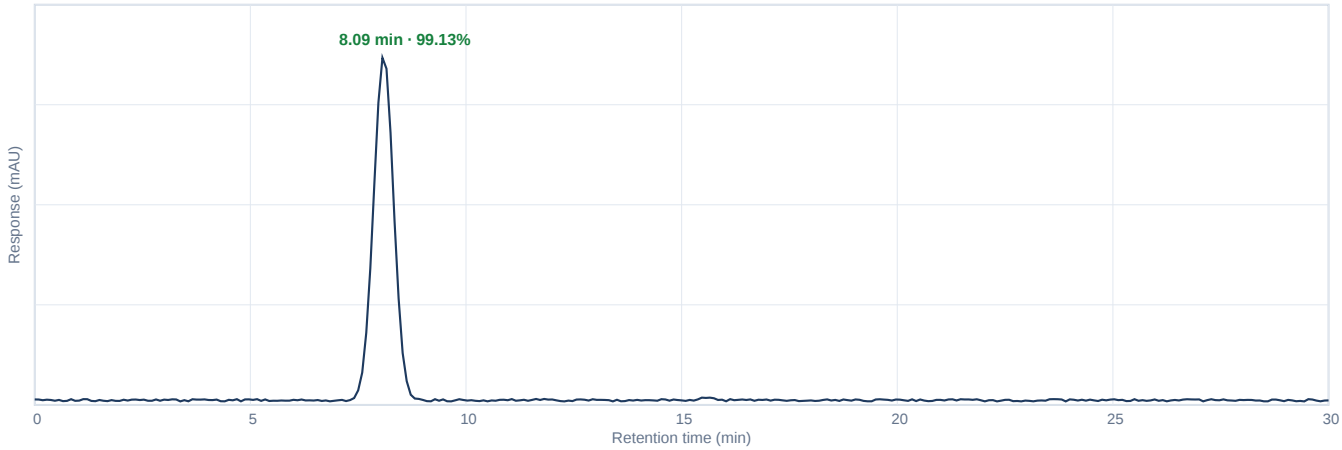
APPENDIX — ANALYTICAL RAW DATA

Ovagen 50mg · Lot ZX260512-219 · Cert. ZXR-COA-2026-26486

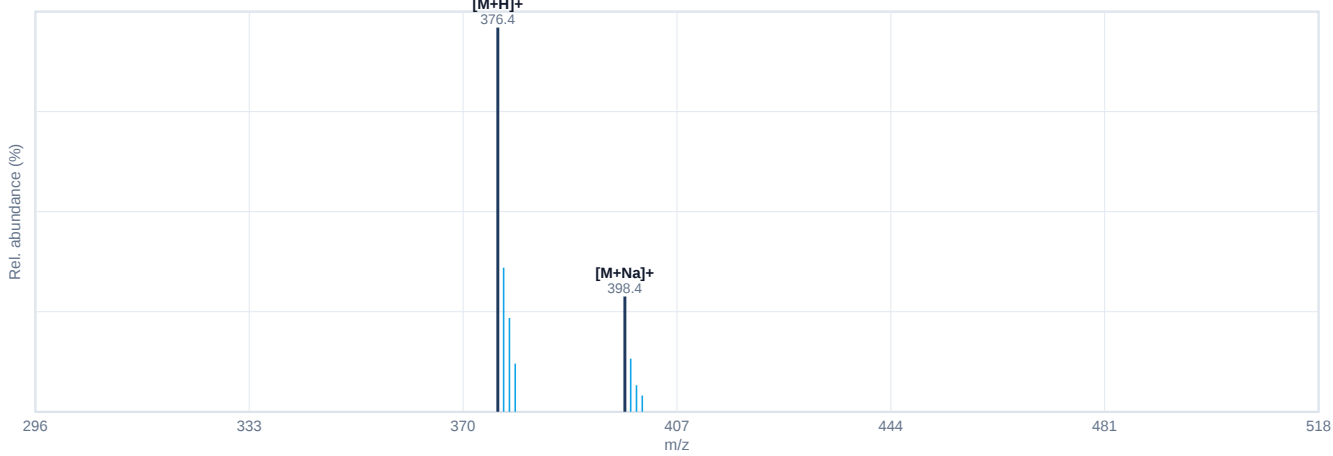
Scan to verify

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



Peak #	RT (min)	Area (µV·s)	Area %	Assignment
1	8.09	963152	99.13	Main (target)
2	15.56	4798	0.48	Impurity / related substance
3	11.62	2227	0.21	Impurity / related substance
4	18.27	1667	0.18	Impurity / related substance

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



Interpretation

Identity confirmed by ESI-MS. Observed ions [M+H]+ 376.4, [M+Na]+ 398.4 deconvolute to a neutral monoisotopic-average mass of 375.37 Da (theoretical 375.37 Da; mass error 0 ppm), consistent with Ovagen. 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.

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CERTIFICATE OF ANALYSIS

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PASS
QC released for dispatch

Scan to verify

Livagen — 50mg

Liver Bioregulator

1. PRODUCT IDENTIFICATION

Synonym	Liver Bioregulator	**Label claim**	50mg
Sequence / structure	Lys-Glu-Asp-Ala	**Lot / Batch**	ZX260512-732 / B28984
Mol. formula	C18H31N5O9	**Manufacture date**	19 May 2026
Mol. weight	461.47 g/mol	**Date of analysis**	26 May 2026
CAS number	No CAS assigned	**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 461.47 Da	461.47 Da (Δ 0 ppm)	**PASS**
Purity	RP-HPLC, UV 220 nm	≥ 98.0% area	98.76%	**PASS**
Related substances	RP-HPLC	Single ≤1.0 / Total ≤2.0%	0.61 / 1.24%	**PASS**
Water content	Karl Fischer (USP <921>)	≤ 8.0%	3.3%	**PASS**
Counter-ion: acetate	Ion chromatography	Report (3.0–15.0%)	5.7%	**PASS**
Net peptide content	Amino-acid analysis	≥ 80.0%	89.8%	**PASS**
Bacterial endotoxin	LAL kinetic (USP <85>)	< 5.0 EU/mg	0.08 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 (≥ 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.

DZK.

Dr. Zhou Kai
Analyst · 26 May 2026 · Zhongxi Research Institute

DGT.

Dr. Guo Tao (QC Manager)
Approved by · 26 May 2026 · Zhongxi Research Institute

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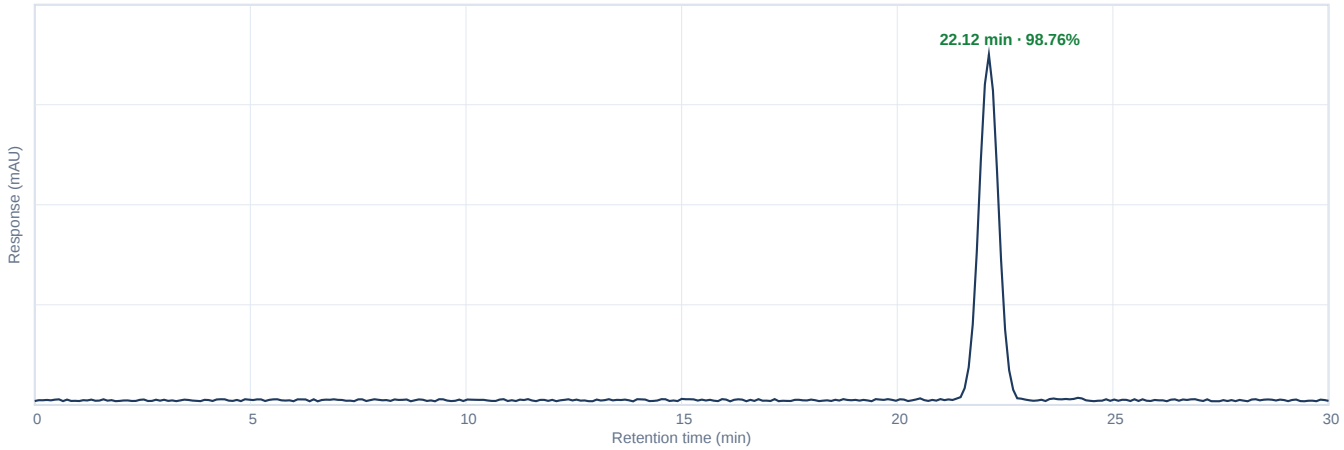
APPENDIX — ANALYTICAL RAW DATA

Livagen 50mg · Lot ZX260512-732 · Cert. ZXR-COA-2026-84544

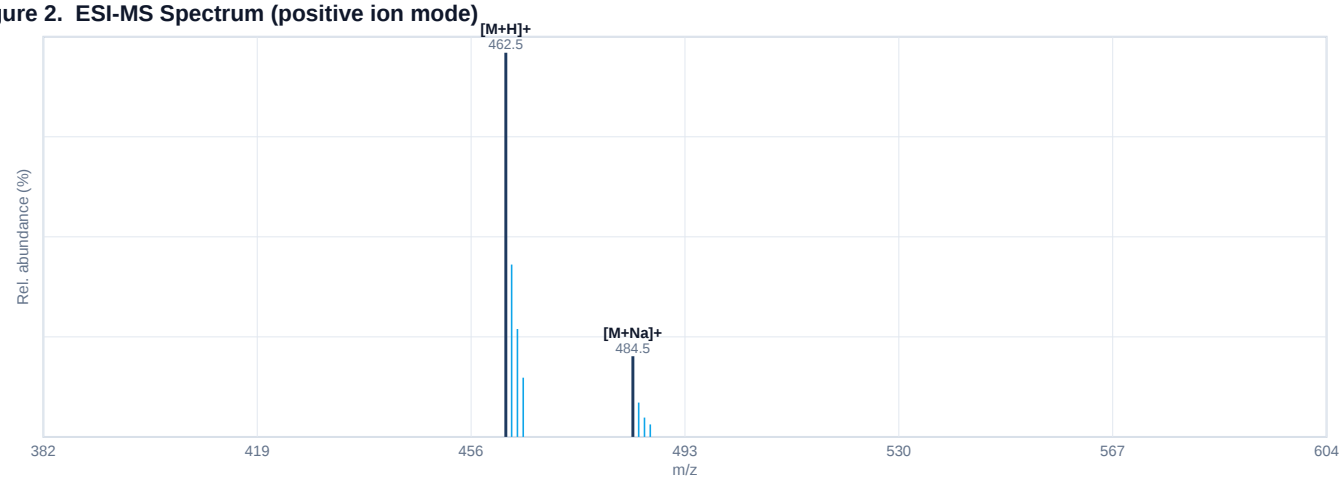
Scan to verify

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



Peak #	RT (min)	Area (µV·s)	Area %	Assignment
1	22.12	933792	98.76	Main (target)
2	24.23	5453	0.52	Impurity / related substance
3	20.54	3215	0.32	Impurity / related substance
4	23.79	2721	0.28	Impurity / related substance
5	15.23	1232	0.12	Impurity / related substance

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



Interpretation

Identity confirmed by ESI-MS. Observed ions [M+H]+ 462.5, [M+Na]+ 484.5 deconvolute to a neutral monoisotopic-average mass of 461.47 Da (theoretical 461.47 Da; mass error 0 ppm), consistent with Livagen. 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.

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CERTIFICATE OF ANALYSIS

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

PASS
QC released for dispatch

Scan to verify

Vesugen — 50mg

Vascular Bioregulator

1. PRODUCT IDENTIFICATION

Synonym	Vascular Bioregulator	**Label claim**	50mg
Sequence / structure	Lys-Glu-Asp	**Lot / Batch**	ZX260512-817 / B34289
Mol. formula	C15H26N4O8	**Manufacture date**	28 May 2026
Mol. weight	390.39 g/mol	**Date of analysis**	3 Jun 2026
CAS number	No CAS assigned	**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 390.39 Da	390.39 Da (Δ 0 ppm)	**PASS**
Purity	RP-HPLC, UV 220 nm	≥ 98.0% area	99.09%	**PASS**
Related substances	RP-HPLC	Single ≤1.0 / Total ≤2.0%	0.55 / 0.91%	**PASS**
Water content	Karl Fischer (USP <921>)	≤ 8.0%	3.1%	**PASS**
Counter-ion: acetate	Ion chromatography	Report (3.0–15.0%)	10.8%	**PASS**
Net peptide content	Amino-acid analysis	≥ 80.0%	85.1%	**PASS**
Bacterial endotoxin	LAL kinetic (USP <85>)	< 5.0 EU/mg	0.04 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 (≥ 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.

DZL.

Dr. Zhao Liang
Analyst · 3 Jun 2026 · Zhongxi Research Institute

DLX.

Dr. Lin Xia (QC Manager)
Approved by · 3 Jun 2026 · Zhongxi Research Institute

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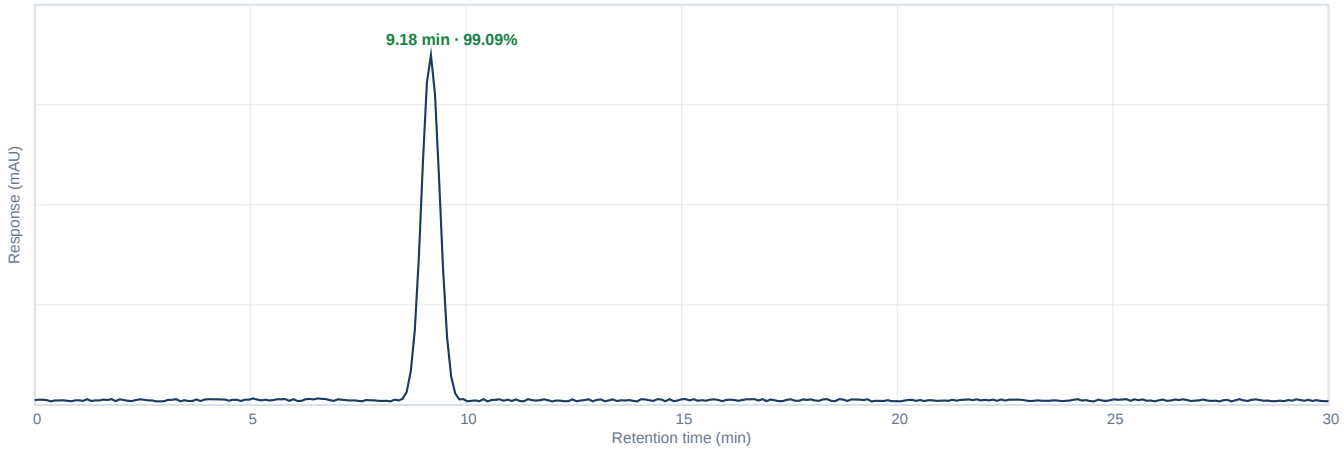
APPENDIX — ANALYTICAL RAW DATA

Vesugen 50mg · Lot ZX260512-817 · Cert. ZXR-COA-2026-69486

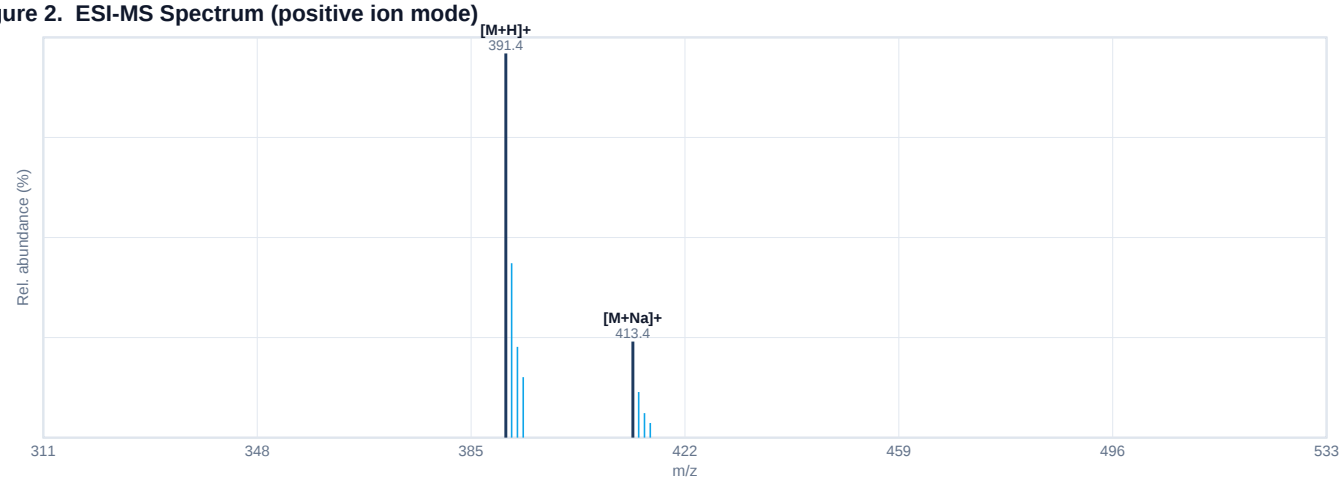
Scan to verify

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



Peak #	RT (min)	Area (µV·s)	Area %	Assignment
1	9.18	1010302	99.09	Main (target)
2	6.65	4903	0.51	Impurity / related substance
3	5.08	4070	0.40	Impurity / related substance

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



Interpretation

Identity confirmed by ESI-MS. Observed ions [M+H]+ 391.4, [M+Na]+ 413.4 deconvolute to a neutral monoisotopic-average mass of 390.39 Da (theoretical 390.39 Da; mass error 0 ppm), consistent with Vesugen. 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.

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CERTIFICATE OF ANALYSIS

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

PASS
QC released for dispatch

Scan to verify

Humanin — 50mg

Mitochondrial-derived Peptide

1. PRODUCT IDENTIFICATION

Synonym	Mitochondrial-derived Peptide	**Label claim**	50mg
Sequence / structure	MAPRGFSCLLLLTSEIDLPVKRRA	**Lot / Batch**	ZX260512-183 / B60272
Mol. formula	C119H204N34O32S2	**Manufacture date**	27 May 2026
Mol. weight	2687.22 g/mol	**Date of analysis**	2 Jun 2026
CAS number	330936-69-1	**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 2687.22 Da	2687.25 Da (Δ 11 ppm)	**PASS**
Purity	RP-HPLC, UV 220 nm	≥ 98.0% area	99.01%	**PASS**
Related substances	RP-HPLC	Single ≤1.0 / Total ≤2.0%	0.61 / 0.99%	**PASS**
Water content	Karl Fischer (USP <921>)	≤ 8.0%	2.9%	**PASS**
Counter-ion: acetate	Ion chromatography	Report (3.0–15.0%)	9.1%	**PASS**
Net peptide content	Amino-acid analysis	≥ 80.0%	86.0%	**PASS**
Bacterial endotoxin	LAL kinetic (USP <85>)	< 5.0 EU/mg	0.14 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 (≥ 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 · 2 Jun 2026 · Zhongxi Research Institute

DFH.

Dr. Fang Hong (QC Manager)
Approved by · 2 Jun 2026 · Zhongxi Research Institute

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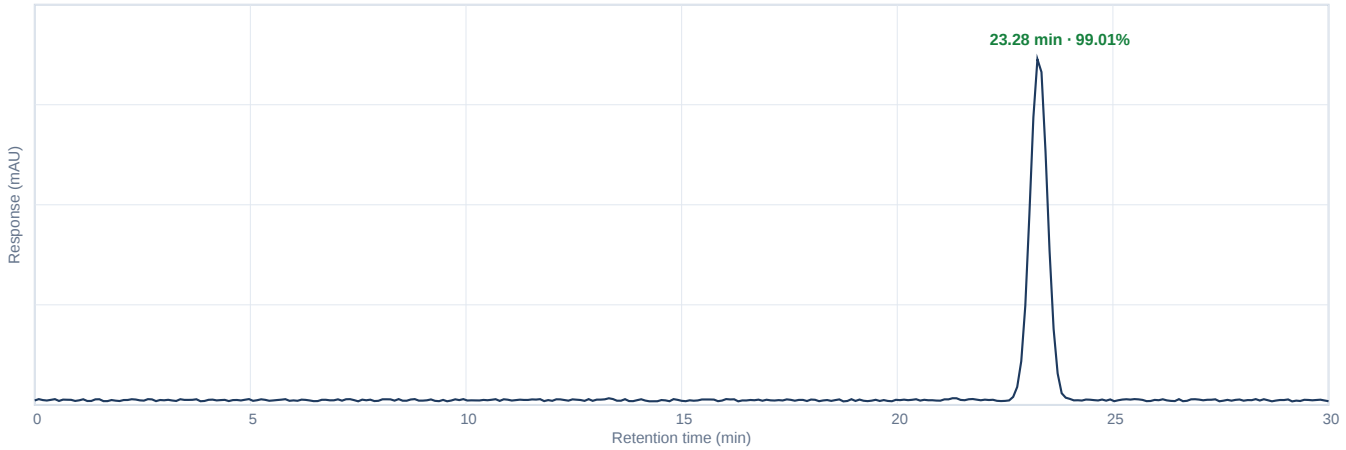
APPENDIX — ANALYTICAL RAW DATA

Humanin 50mg · Lot ZX260512-183 · Cert. ZXR-COA-2026-66851

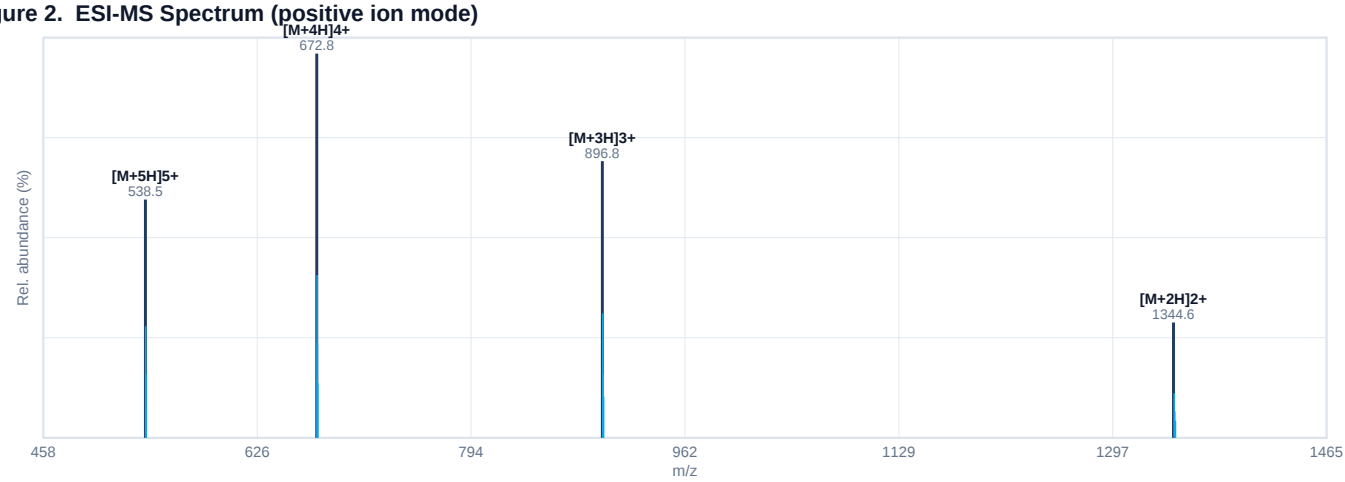
Scan to verify

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



Peak #	RT (min)	Area (µV·s)	Area %	Assignment
1	23.28	1036874	99.01	Main (target)
2	13.24	4876	0.54	Impurity / related substance
3	21.30	4172	0.40	Impurity / related substance
4	21.75	523	0.05	Impurity / related substance

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



Interpretation

Identity confirmed by ESI-MS. Observed ions [M+2H]2+ 1344.6, [M+3H]3+ 896.8, [M+4H]4+ 672.8, [M+5H]5+ 538.5 deconvolute to a neutral monoisotopic-average mass of 2687.25 Da (theoretical 2687.22 Da; mass error 11 ppm), consistent with Humanin. 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.

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CERTIFICATE OF ANALYSIS

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

PASS
QC released for dispatch

Scan to verify

Melanotan II — 10mg

Melanotan 2

1. PRODUCT IDENTIFICATION

Synonym	Melanotan 2	**Label claim**	10mg
Sequence / structure	Ac-Nle-cyclo[Asp-His-D-Phe-Arg-Trp-Lys]-NH2	**Lot / Batch**	ZX260512-823 / B77489
Mol. formula	C50H69N15O9	**Manufacture date**	1 Jun 2026
Mol. weight	1024.18 g/mol	**Date of analysis**	8 Jun 2026
CAS number	121062-08-6	**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 1024.18 Da	1024.17 Da (Δ -10 ppm)	**PASS**
Purity	RP-HPLC, UV 220 nm	≥ 98.0% area	98.77%	**PASS**
Related substances	RP-HPLC	Single ≤1.0 / Total ≤2.0%	0.63 / 1.23%	**PASS**
Water content	Karl Fischer (USP <921>)	≤ 8.0%	1.1%	**PASS**
Counter-ion: acetate	Ion chromatography	Report (3.0–15.0%)	8.0%	**PASS**
Net peptide content	Amino-acid analysis	≥ 80.0%	89.6%	**PASS**
Bacterial endotoxin	LAL kinetic (USP <85>)	< 5.0 EU/mg	0.10 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 (≥ 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.

DSY.

Dr. Sun Yan
Analyst · 8 Jun 2026 · Zhongxi Research Institute

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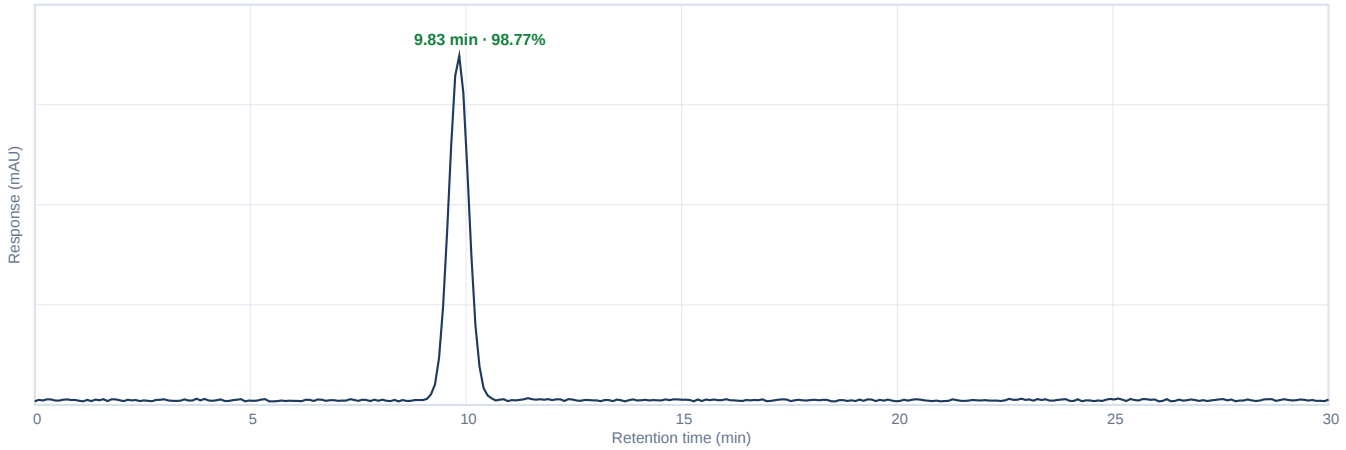
APPENDIX — ANALYTICAL RAW DATA

Melanotan II 10mg · Lot ZX260512-823 · Cert. ZXR-COA-2026-75613

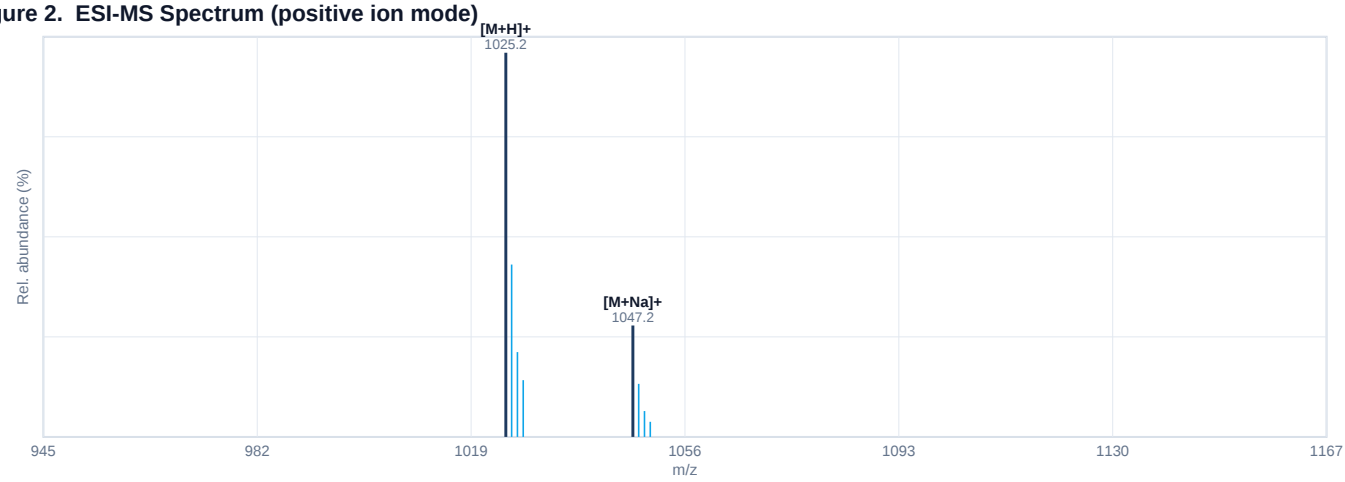
Scan to verify

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



Peak #	RT (min)	Area (µV·s)	Area %	Assignment
1	9.83	984400	98.77	Main (target)
2	11.33	4530	0.50	Impurity / related substance
3	22.87	3708	0.34	Impurity / related substance
4	25.04	2559	0.28	Impurity / related substance
5	3.76	1084	0.11	Impurity / related substance

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



Interpretation

Identity confirmed by ESI-MS. Observed ions [M+H]+ 1025.2, [M+Na]+ 1047.2 deconvolute to a neutral monoisotopic-average mass of 1024.17 Da (theoretical 1024.18 Da; mass error -10 ppm), consistent with Melanotan II. 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.

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CERTIFICATE OF ANALYSIS

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PASS
QC released for dispatch

Scan to verify

Bacteriostatic Water — 3ml

Sterile Water 0.9% Benzyl Alcohol

1. PRODUCT IDENTIFICATION

Synonym	Sterile Water 0.9% Benzyl Alcohol	**Label claim**	3ml
Sequence / structure	—	**Lot / Batch**	ZX260512-649 / B50435
Mol. formula	H2O	**Manufacture date**	26 May 2026
Mol. weight	18.02 g/mol	**Date of analysis**	1 Jun 2026
CAS number	7732-18-5	**Storage**	2–8 °C, dark
Salt form	Free base / N/A		

2. ANALYTICAL TEST RESULTS

Test	Method	Specification	Result	Verdict
Appearance	Visual	Clear colourless solution	Clear, colourless particle-free solution	**PASS**
Benzyl alcohol	GC	0.90% w/v (±10%)	0.90% w/v	**PASS**
pH	Potentiometric (USP <791>)	4.5–7.0	5.6	**PASS**
Sterility	USP <71>	Sterile, no growth	No growth	**PASS**
Bacterial endotoxin	LAL (USP <85>)	< 0.25 EU/mL	0.05 EU/mL	**PASS**
Particulate matter	USP <788>	Conforms	Conforms	**PASS**

CONCLUSION
All tested parameters CONFORM to the acceptance specifications. The batch is of high chromatographic purity (≥ 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.

DHR.

Dr. Huang Rui
Analyst · 1 Jun 2026 · Zhongxi Research Institute

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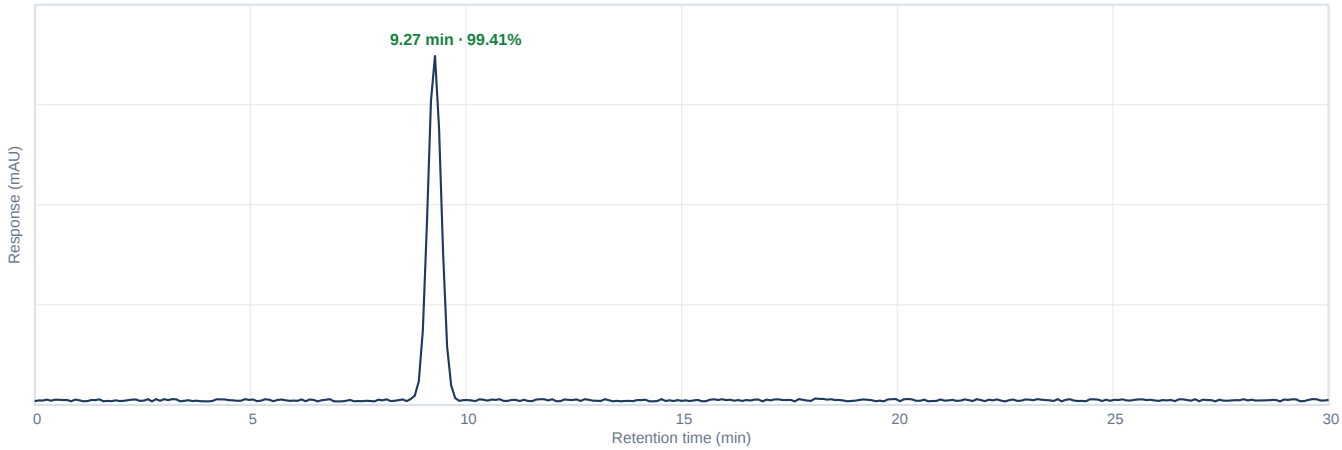
APPENDIX — ANALYTICAL RAW DATA

Bacteriostatic Water 3ml · Lot ZX260512-649 · Cert. ZXR-COA-2026-99463

Scan to verify

Figure 1. RP-HPLC Chromatogram — benzyl alcohol assay (UV 257 nm)



Peak #	RT (min)	Area (µV·s)	Area %	Assignment
1	9.27	1043054	99.41	Benzyl alcohol
2	18.29	3257	0.36	Impurity / related substance
3	20.12	605	0.06	Impurity / related substance

Figure 2. Identity confirmation (MS not applicable to this product class)

MS not applicable for this product class.

Interpretation

This product is a sterile bacteriostatic solution. Identity and strength are established by GC assay of benzyl alcohol and compendial physicochemical tests (page 1); mass spectrometry is not applicable. The trace below is the benzyl-alcohol assay chromatogram.

Methods — RP-HPLC: Zorbax SB-C18 4.6×250 mm, 5 µm; 40% MeCN / 60% water isocratic; 1.0 mL/min; 30 °C; UV 257 nm (benzyl alcohol chromophore). pH: USP <791>. Sterility: USP <71>. Endotoxin: LAL kinetic chromogenic. Particulates: USP <788>.

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CERTIFICATE OF ANALYSIS

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PASS
QC released for dispatch

Scan to verify

Bacteriostatic Water — 10ml

Sterile Water 0.9% Benzyl Alcohol

1. PRODUCT IDENTIFICATION

Synonym	Sterile Water 0.9% Benzyl Alcohol	**Label claim**	10ml
Sequence / structure	—	**Lot / Batch**	ZX260512-467 / B34930
Mol. formula	H2O	**Manufacture date**	19 May 2026
Mol. weight	18.02 g/mol	**Date of analysis**	27 May 2026
CAS number	7732-18-5	**Storage**	2–8 °C, dark
Salt form	Free base / N/A		

2. ANALYTICAL TEST RESULTS

Test	Method	Specification	Result	Verdict
Appearance	Visual	Clear colourless solution	Clear, colourless particle-free solution	**PASS**
Benzyl alcohol	GC	0.90% w/v (±10%)	0.89% w/v	**PASS**
pH	Potentiometric (USP <791>)	4.5–7.0	5.2	**PASS**
Sterility	USP <71>	Sterile, no growth	No growth	**PASS**
Bacterial endotoxin	LAL (USP <85>)	< 0.25 EU/mL	0.15 EU/mL	**PASS**
Particulate matter	USP <788>	Conforms	Conforms	**PASS**

CONCLUSION
All tested parameters CONFORM to the acceptance specifications. The batch is of high chromatographic purity (≥ 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.

DHR.

Dr. Huang Rui
Analyst · 27 May 2026 · Zhongxi Research Institute

DLX.

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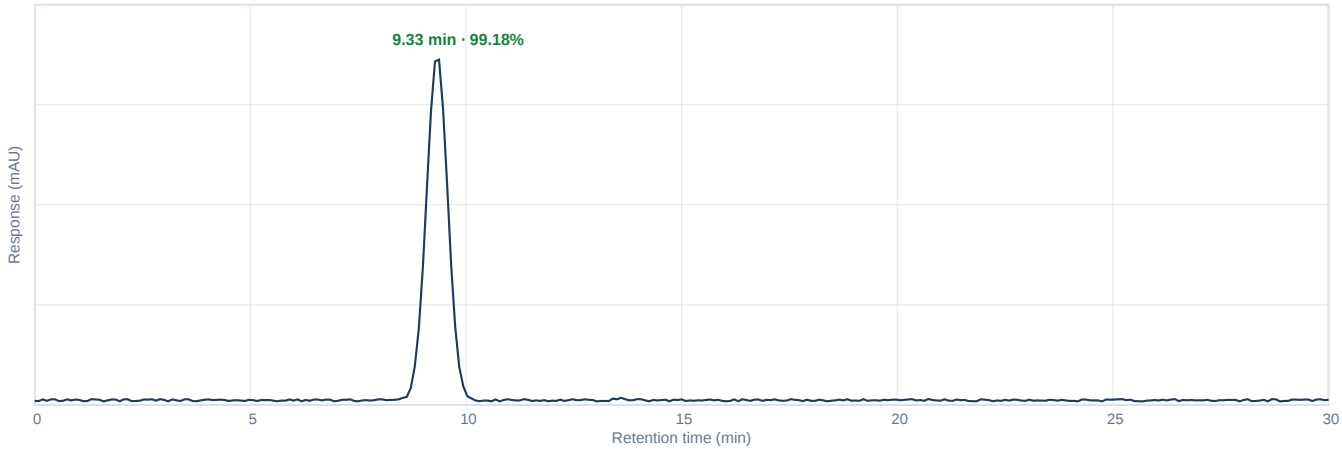
APPENDIX — ANALYTICAL RAW DATA

Bacteriostatic Water 10ml · Lot ZX260512-467 · Cert. ZXR-COA-2026-70378

Scan to verify

Figure 1. RP-HPLC Chromatogram — benzyl alcohol assay (UV 257 nm)



Peak #	RT (min)	Area (µV·s)	Area %	Assignment
1	9.33	1045511	99.18	Benzyl alcohol
2	13.55	4313	0.41	Impurity / related substance
3	20.48	2718	0.27	Impurity / related substance
4	5.18	1197	0.11	Impurity / related substance
5	16.95	297	0.03	Impurity / related substance

Figure 2. Identity confirmation (MS not applicable to this product class)

MS not applicable for this product class.

Interpretation

This product is a sterile bacteriostatic solution. Identity and strength are established by GC assay of benzyl alcohol and compendial physicochemical tests (page 1); mass spectrometry is not applicable. The trace below is the benzyl-alcohol assay chromatogram.

Methods — RP-HPLC: Zorbax SB-C18 4.6×250 mm, 5 µm; 40% MeCN / 60% water isocratic; 1.0 mL/min; 30 °C; UV 257 nm (benzyl alcohol chromophore). pH: USP <791>. Sterility: USP <71>. Endotoxin: LAL kinetic chromogenic. Particulates: USP <788>.

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CERTIFICATE OF ANALYSIS

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PASS
QC released for dispatch

Scan to verify

ARA-290 — 10mg

Cibinetide

1. PRODUCT IDENTIFICATION

Synonym	Cibinetide	**Label claim**	10mg
Sequence / structure	pGlu-Glu-Gln-Leu-Glu-Arg-Ala-Leu-Asn-Ser-Ser	**Lot / Batch**	ZX260512-589 / B65316
Mol. formula	C51H84N16O21	**Manufacture date**	22 May 2026
Mol. weight	1257.30 g/mol	**Date of analysis**	1 Jun 2026
CAS number	1208243-50-8	**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 1257.30 Da	1257.31 Da (Δ 8 ppm)	**PASS**
Purity	RP-HPLC, UV 220 nm	≥ 98.0% area	99.49%	**PASS**
Related substances	RP-HPLC	Single ≤1.0 / Total ≤2.0%	0.24 / 0.51%	**PASS**
Water content	Karl Fischer (USP <921>)	≤ 8.0%	1.3%	**PASS**
Counter-ion: acetate	Ion chromatography	Report (3.0–15.0%)	9.8%	**PASS**
Net peptide content	Amino-acid analysis	≥ 80.0%	87.4%	**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 (≥ 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.

DZL.

Dr. Zhao Liang
Analyst · 1 Jun 2026 · Zhongxi Research Institute

DGT.

Dr. Guo Tao (QC Manager)
Approved by · 1 Jun 2026 · Zhongxi Research Institute

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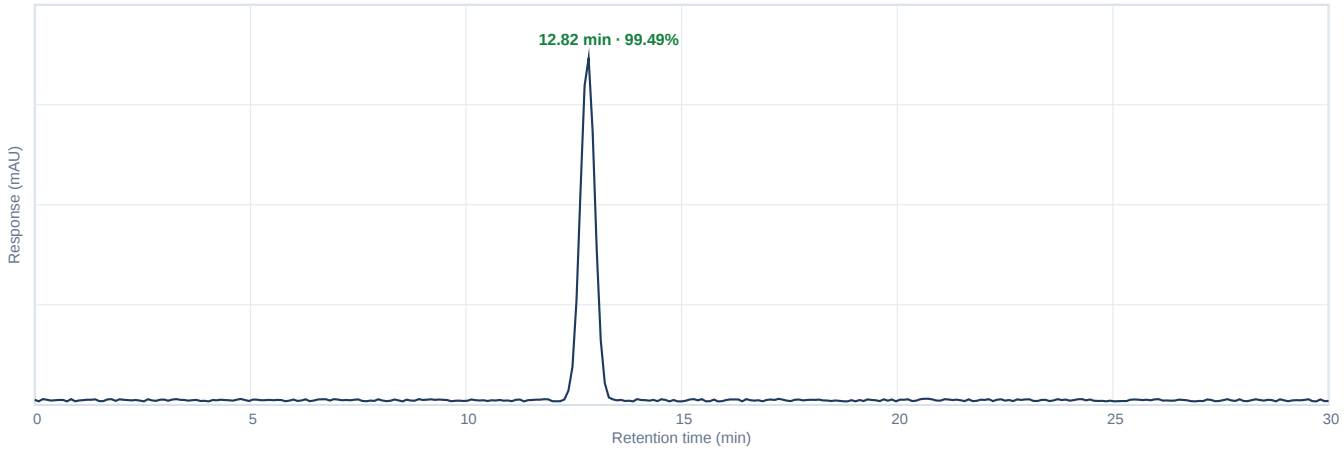
APPENDIX — ANALYTICAL RAW DATA

ARA-290 10mg · Lot ZX260512-589 · Cert. ZXR-COA-2026-24143

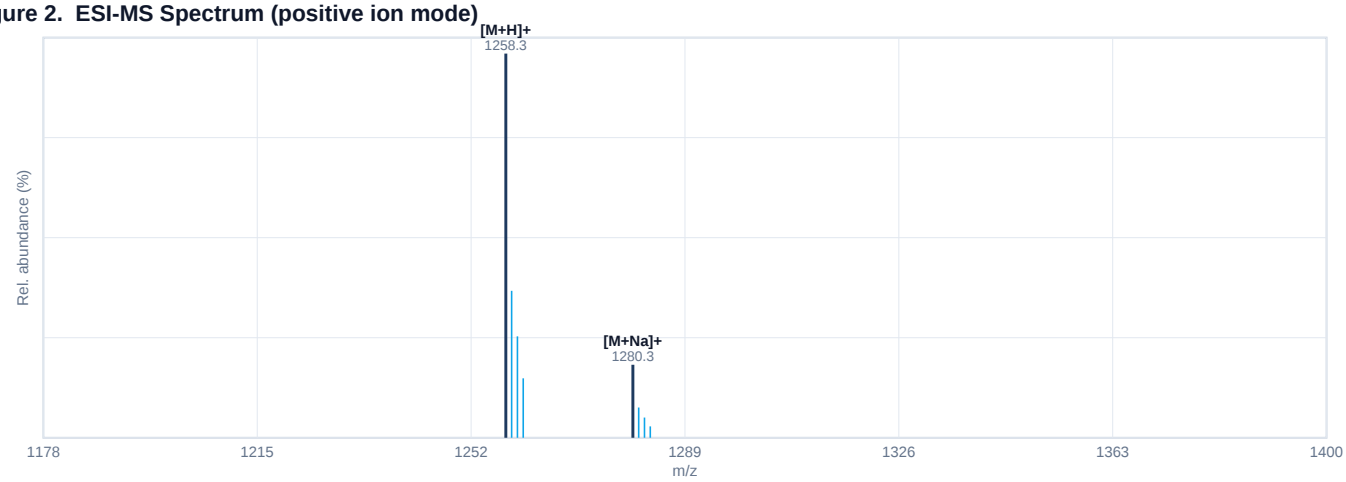
Scan to verify

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



Peak #	RT (min)	Area (μV·s)	Area %	Assignment
1	12.82	961975	99.49	Main (target)
2	17.26	2192	0.24	Impurity / related substance
3	20.68	1977	0.20	Impurity / related substance
4	4.81	740	0.07	Impurity / related substance

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



Interpretation

Identity confirmed by ESI-MS. Observed ions [M+H]+ 1258.3, [M+Na]+ 1280.3 deconvolute to a neutral monoisotopic-average mass of 1257.31 Da (theoretical 1257.30 Da; mass error 8 ppm), consistent with ARA-290. 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.

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CERTIFICATE OF ANALYSIS

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

PASS
QC released for dispatch

Scan to verify

Testagen — 20mg

Testicular Bioregulator (KEDG)

1. PRODUCT IDENTIFICATION

Synonym	Testicular Bioregulator (KEDG)	**Label claim**	20mg
Sequence / structure	Lys-Glu-Asp-Gly	**Lot / Batch**	ZX260512-702 / B33959
Mol. formula	C17H29N5O9	**Manufacture date**	22 May 2026
Mol. weight	447.44 g/mol	**Date of analysis**	28 May 2026
CAS number	No CAS assigned	**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 447.44 Da	447.44 Da (Δ 0 ppm)	**PASS**
Purity	RP-HPLC, UV 220 nm	≥ 98.0% area	99.47%	**PASS**
Related substances	RP-HPLC	Single ≤1.0 / Total ≤2.0%	0.31 / 0.53%	**PASS**
Water content	Karl Fischer (USP <921>)	≤ 8.0%	3.1%	**PASS**
Counter-ion: acetate	Ion chromatography	Report (3.0–15.0%)	9.3%	**PASS**
Net peptide content	Amino-acid analysis	≥ 80.0%	85.7%	**PASS**
Bacterial endotoxin	LAL kinetic (USP <85>)	< 5.0 EU/mg	0.08 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 (≥ 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.

DSY.

Dr. Sun Yan
Analyst · 28 May 2026 · Zhongxi Research Institute

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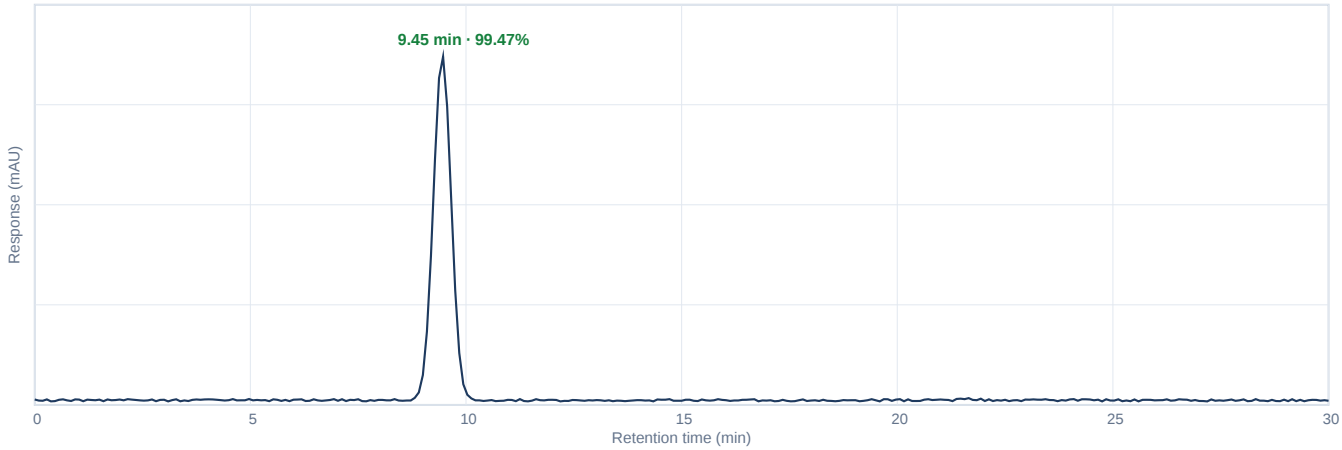
APPENDIX — ANALYTICAL RAW DATA

Testagen 20mg · Lot ZX260512-702 · Cert. ZXR-COA-2026-25287

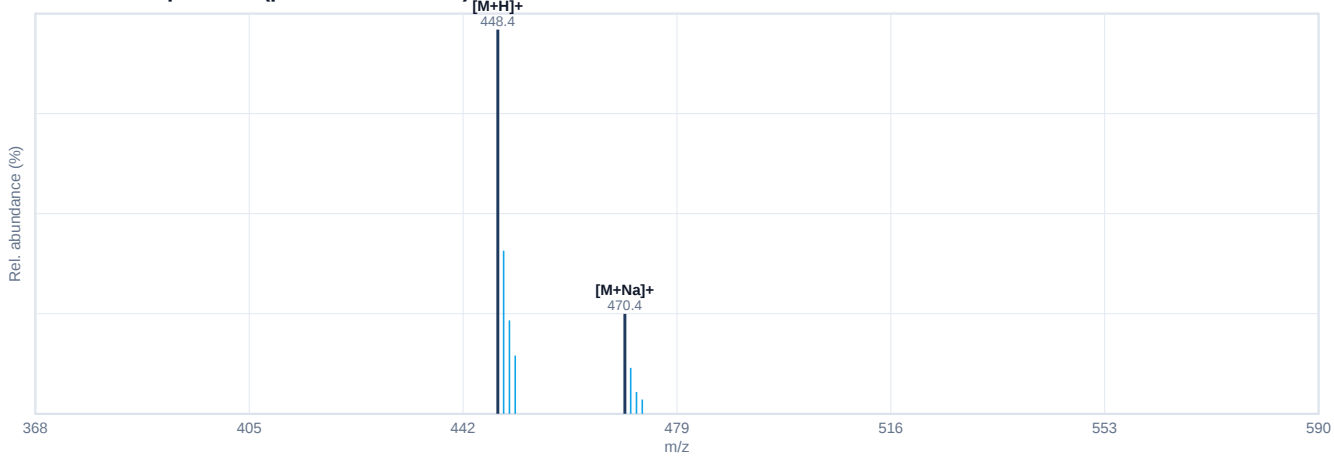
Scan to verify

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



Peak #	RT (min)	Area (µV·s)	Area %	Assignment
1	9.45	943151	99.47	Main (target)
2	21.71	3309	0.31	Impurity / related substance
3	4.91	1078	0.11	Impurity / related substance
4	21.63	831	0.08	Impurity / related substance

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



Interpretation

Identity confirmed by ESI-MS. Observed ions [M+H]+ 448.4, [M+Na]+ 470.4 deconvolute to a neutral monoisotopic-average mass of 447.44 Da (theoretical 447.44 Da; mass error 0 ppm), consistent with Testagen. 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.

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CERTIFICATE OF ANALYSIS

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

PASS
QC released for dispatch

Scan to verify

0.6% Acetic Acid — 3ml

0.6% Acetic Acid Sterile Solution

1. PRODUCT IDENTIFICATION

Synonym	0.6% Acetic Acid Sterile Solution	**Label claim**	3ml
Sequence / structure	—	**Lot / Batch**	ZX260512-280 / B86239
Mol. formula	CH3COOH (C2H4O2)	**Manufacture date**	16 May 2026
Mol. weight	60.05 g/mol	**Date of analysis**	29 May 2026
CAS number	64-19-7	**Storage**	2–8 °C, dark
Salt form	Free base / N/A		

2. ANALYTICAL TEST RESULTS

Test	Method	Specification	Result	Verdict
Appearance	Visual	Clear colourless solution	Clear, colourless particle-free solution	**PASS**
Assay (acetic acid)	Titration	0.54–0.66% v/v	0.58% v/v	**PASS**
pH	Potentiometric	2.8–3.4	3.3	**PASS**
Sterility	USP <71>	Sterile, no growth	No growth	**PASS**
Bacterial endotoxin	LAL (USP <85>)	< 0.50 EU/mL	0.09 EU/mL	**PASS**

CONCLUSION
All tested parameters CONFORM to the acceptance specifications. The batch is of high chromatographic purity (≥ 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.

DSY.

Dr. Sun Yan
Analyst · 29 May 2026 · Zhongxi Research Institute

DGT.

Dr. Guo Tao (QC Manager)
Approved by · 29 May 2026 · Zhongxi Research Institute

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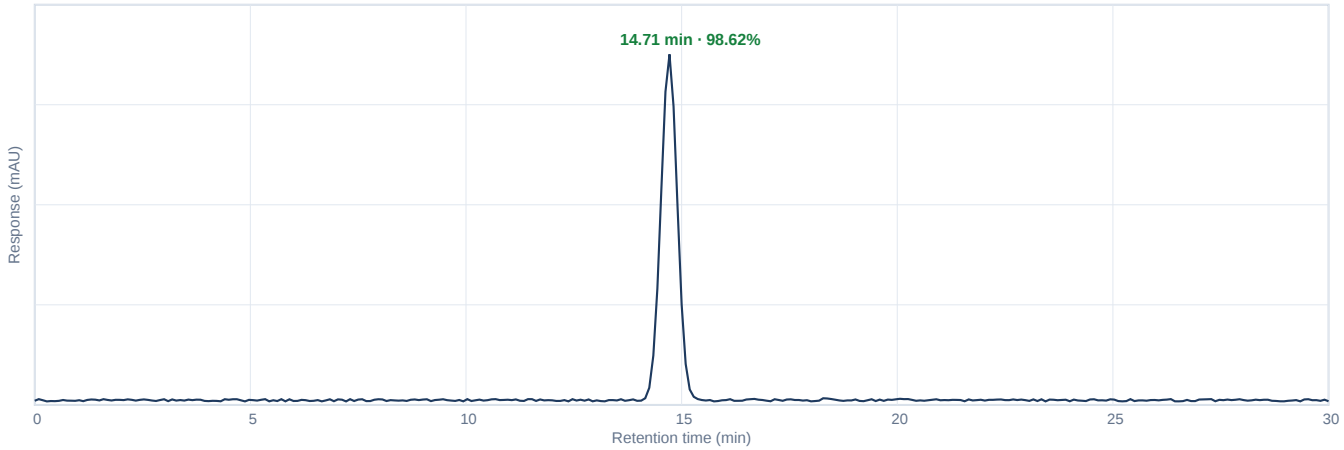
APPENDIX — ANALYTICAL RAW DATA

0.6% Acetic Acid 3ml · Lot ZX260512-280 · Cert. ZXR-COA-2026-78732

Scan to verify

Figure 1. Ion-Exclusion HPLC Chromatogram — organic acids (RI / UV 210 nm)



Peak #	RT (min)	Area (µV·s)	Area %	Assignment
1	14.71	909015	98.62	Acetic acid
2	18.38	5856	0.59	Impurity / related substance
3	16.70	4538	0.42	Impurity / related substance
4	19.95	2395	0.22	Impurity / related substance
5	3.55	1400	0.15	Impurity / related substance

Figure 2. Identity confirmation (MS not applicable to this product class)

MS not applicable for this product class.

Interpretation

This product is a dilute acetic-acid solution. Strength is established by acid-base titration and the related compendial tests (page 1); mass spectrometry is not applicable. The trace below is the organic-acid assay chromatogram.

Methods — Ion-exclusion HPLC: Bio-Rad Aminex HPX-87H 300×7.8 mm; 5 mM H2SO4 isocratic; 0.6 mL/min; 50 °C; refractive-index + UV 210 nm (a reversed-phase C18/UV-220 method is NOT used — acetic acid is unretained on C18 and lacks a 220 nm chromophore; on HPX-87H acetate elutes ~14–15 min). Assay confirmed by acid-base titration. pH: USP <791>. Sterility: USP <71>. Endotoxin: LAL kinetic.

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CERTIFICATE OF ANALYSIS

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PASS
QC released for dispatch

Scan to verify

0.6% Acetic Acid — 10ml

0.6% Acetic Acid Sterile Solution

1. PRODUCT IDENTIFICATION

Synonym	0.6% Acetic Acid Sterile Solution	**Label claim**	10ml
Sequence / structure	—	**Lot / Batch**	ZX260512-731 / B35772
Mol. formula	CH3COOH (C2H4O2)	**Manufacture date**	16 May 2026
Mol. weight	60.05 g/mol	**Date of analysis**	28 May 2026
CAS number	64-19-7	**Storage**	2–8 °C, dark
Salt form	Free base / N/A		

2. ANALYTICAL TEST RESULTS

Test	Method	Specification	Result	Verdict
Appearance	Visual	Clear colourless solution	Clear, colourless particle-free solution	**PASS**
Assay (acetic acid)	Titration	0.54–0.66% v/v	0.61% v/v	**PASS**
pH	Potentiometric	2.8–3.4	3.2	**PASS**
Sterility	USP <71>	Sterile, no growth	No growth	**PASS**
Bacterial endotoxin	LAL (USP <85>)	< 0.50 EU/mL	0.04 EU/mL	**PASS**

CONCLUSION
All tested parameters CONFORM to the acceptance specifications. The batch is of high chromatographic purity (≥ 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.

DSY.

Dr. Sun Yan
Analyst · 28 May 2026 · Zhongxi Research Institute

DFH.

Dr. Fang Hong (QC Manager)
Approved by · 28 May 2026 · Zhongxi Research Institute

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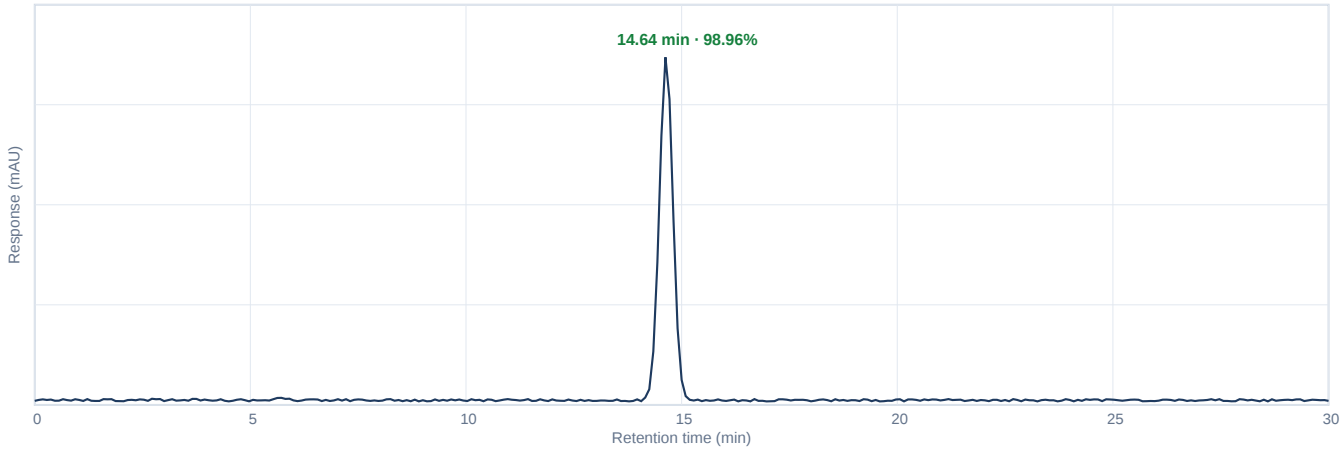
APPENDIX — ANALYTICAL RAW DATA

0.6% Acetic Acid 10ml · Lot ZX260512-731 · Cert. ZXR-COA-2026-14126

Scan to verify

Figure 1. Ion-Exclusion HPLC Chromatogram — organic acids (RI / UV 210 nm)



Peak #	RT (min)	Area (µV·s)	Area %	Assignment
1	14.64	971677	98.96	Acetic acid
2	5.72	4287	0.45	Impurity / related substance
3	2.73	2392	0.22	Impurity / related substance
4	3.76	1808	0.19	Impurity / related substance
5	24.55	1869	0.18	Impurity / related substance

Figure 2. Identity confirmation (MS not applicable to this product class)

MS not applicable for this product class.

Interpretation

This product is a dilute acetic-acid solution. Strength is established by acid-base titration and the related compendial tests (page 1); mass spectrometry is not applicable. The trace below is the organic-acid assay chromatogram.

Methods — Ion-exclusion HPLC: Bio-Rad Aminex HPX-87H 300×7.8 mm; 5 mM H2SO4 isocratic; 0.6 mL/min; 50 °C; refractive-index + UV 210 nm (a reversed-phase C18/UV-220 method is NOT used — acetic acid is unretained on C18 and lacks a 220 nm chromophore; on HPX-87H acetate elutes ~14–15 min). Assay confirmed by acid-base titration. pH: USP <791>. Sterility: USP <71>. Endotoxin: LAL kinetic.

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CERTIFICATE OF ANALYSIS

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

PASS
QC released for dispatch

Scan to verify

NAD+ — 100mg

Nicotinamide Adenine Dinucleotide

1. PRODUCT IDENTIFICATION

Synonym	Nicotinamide Adenine Dinucleotide	**Label claim**	100mg
Sequence / structure	—	**Lot / Batch**	ZX260512-201 / B63072
Mol. formula	C21H27N7O14P2	**Manufacture date**	13 May 2026
Mol. weight	663.43 g/mol	**Date of analysis**	17 May 2026
CAS number	53-84-9	**Storage**	−20 °C, dark, desiccated
Salt form	Free base / N/A		

2. ANALYTICAL TEST RESULTS

Test	Method	Specification	Result	Verdict
Appearance	Visual	Per monograph	White to pale-yellow hygroscopic powder	**PASS**
Identity	LC-MS + ^{1}H-NMR	Matches 663.43 Da & ref	663.43 Da; conforms	**PASS**
Assay / Purity	RP-HPLC	≥ 98.0%	99.79%	**PASS**
Related substances	RP-HPLC	Total ≤ 2.0%	0.21%	**PASS**
Water content	Karl Fischer	≤ 5.0%	1.3%	**PASS**
Residual solvents	GC head-space (ICH Q3C)	Conforms	Conforms	**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 (≥ 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.

DXP.

Dr. Xu Ping
Analyst · 17 May 2026 · Zhongxi Research Institute

DLX.

Dr. Lin Xia (QC Manager)
Approved by · 17 May 2026 · Zhongxi Research Institute

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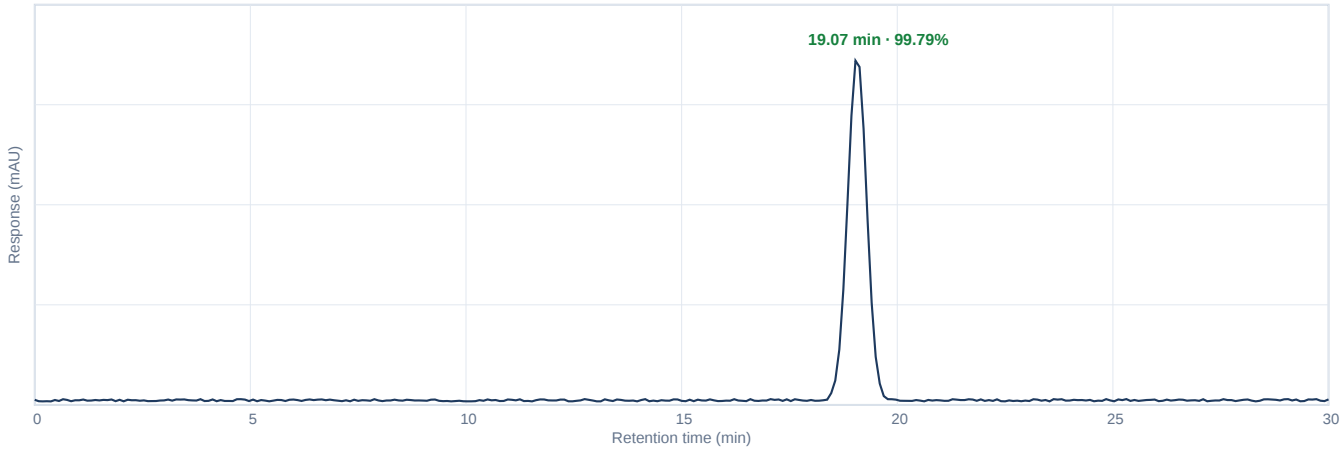
APPENDIX — ANALYTICAL RAW DATA

NAD+ 100mg · Lot ZX260512-201 · Cert. ZXR-COA-2026-43776

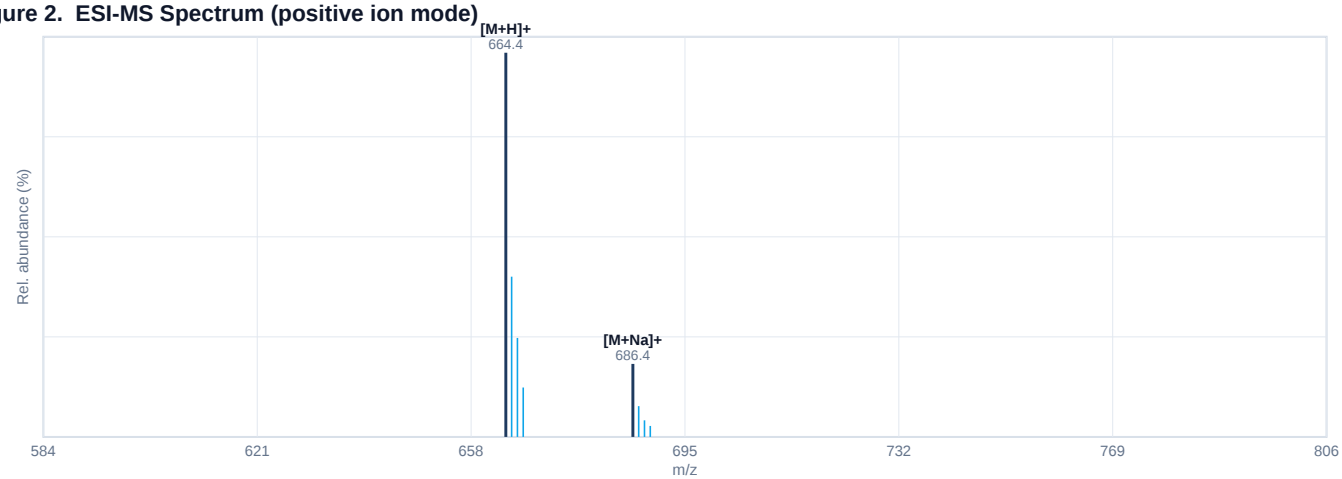
Scan to verify

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



Peak #	RT (min)	Area (µV·s)	Area %	Assignment
1	19.07	955060	99.79	Main (target)
2	6.44	938	0.10	Impurity / related substance
3	4.42	700	0.07	Impurity / related substance
4	6.15	322	0.03	Impurity / related substance
5	22.79	95	0.01	Impurity / related substance

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



Interpretation

Identity confirmed by ESI-MS. Observed ions [M+H]+ 664.4, [M+Na]+ 686.4 deconvolute to a neutral monoisotopic-average mass of 663.43 Da (theoretical 663.43 Da; mass error 0 ppm), consistent with NAD+. 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.

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CERTIFICATE OF ANALYSIS

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

PASS
QC released for dispatch

Scan to verify

NAD+ — 1000mg

Nicotinamide Adenine Dinucleotide

1. PRODUCT IDENTIFICATION

Synonym	Nicotinamide Adenine Dinucleotide	**Label claim**	1000mg
Sequence / structure	—	**Lot / Batch**	ZX260512-292 / B31420
Mol. formula	C21H27N7O14P2	**Manufacture date**	19 May 2026
Mol. weight	663.43 g/mol	**Date of analysis**	25 May 2026
CAS number	53-84-9	**Storage**	−20 °C, dark, desiccated
Salt form	Free base / N/A		

2. ANALYTICAL TEST RESULTS

Test	Method	Specification	Result	Verdict
Appearance	Visual	Per monograph	White to pale-yellow hygroscopic powder	**PASS**
Identity	LC-MS + ^{1}H-NMR	Matches 663.43 Da & ref	663.42 Da; conforms	**PASS**
Assay / Purity	RP-HPLC	≥ 98.0%	99.73%	**PASS**
Related substances	RP-HPLC	Total ≤ 2.0%	0.27%	**PASS**
Water content	Karl Fischer	≤ 5.0%	1.1%	**PASS**
Residual solvents	GC head-space (ICH Q3C)	Conforms	Conforms	**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 (≥ 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.

DHR.

Dr. Huang Rui
Analyst · 25 May 2026 · Zhongxi Research Institute

DFH.

Dr. Fang Hong (QC Manager)
Approved by · 25 May 2026 · Zhongxi Research Institute

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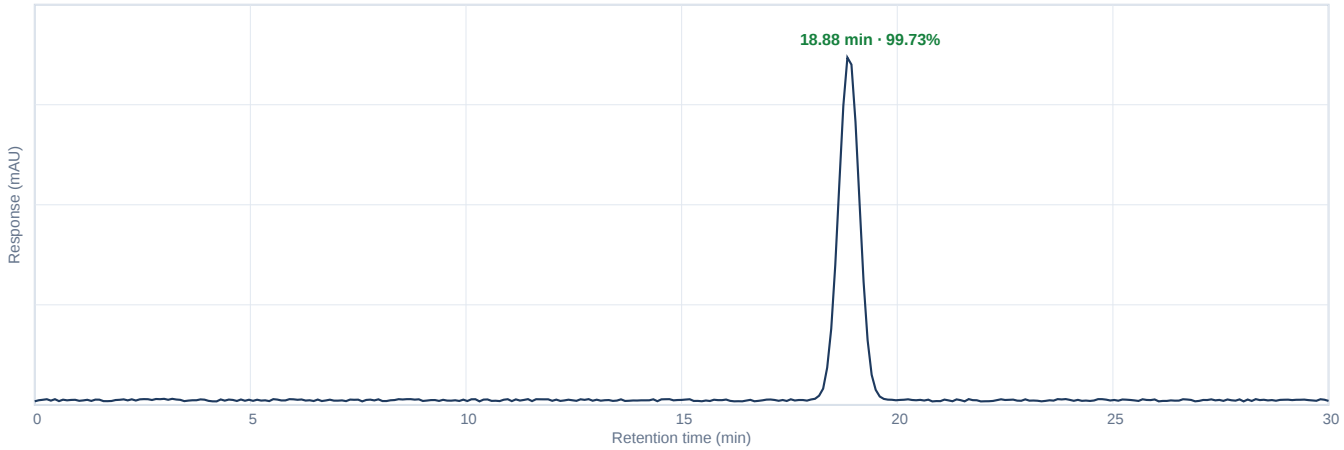
APPENDIX — ANALYTICAL RAW DATA

NAD+ 1000mg · Lot ZX260512-292 · Cert. ZXR-COA-2026-28620

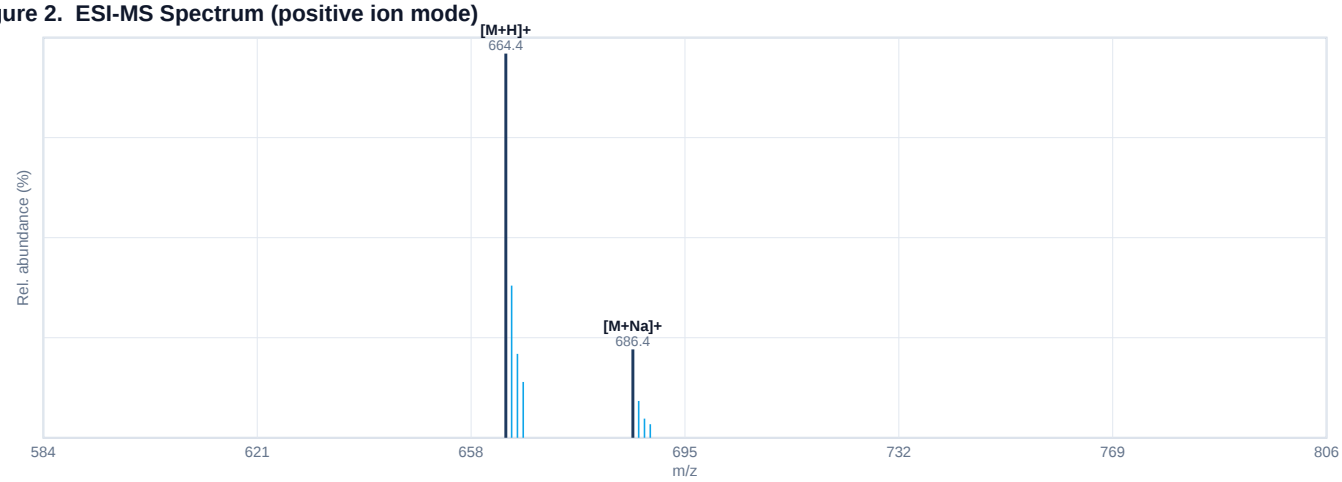
Scan to verify

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



Peak #	RT (min)	Area (µV·s)	Area %	Assignment
1	18.88	999904	99.73	Main (target)
2	3.13	1149	0.11	Impurity / related substance
3	22.90	793	0.08	Impurity / related substance
4	24.29	806	0.08	Impurity / related substance

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



Interpretation

Identity confirmed by ESI-MS. Observed ions [M+H]+ 664.4, [M+Na]+ 686.4 deconvolute to a neutral monoisotopic-average mass of 663.42 Da (theoretical 663.43 Da; mass error -15 ppm), consistent with NAD+. 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.

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CERTIFICATE OF ANALYSIS

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

PASS
QC released for dispatch

Scan to verify

Semaglutide — 10mg

GLP-1 Receptor Agonist

1. PRODUCT IDENTIFICATION

Synonym	GLP-1 Receptor Agonist	**Label claim**	10mg
Sequence / structure	GLP-1 analogue (Aib8, Arg34, C18-diacid @Lys26)	**Lot / Batch**	ZX260512-869 / B22544
Mol. formula	C187H291N45O59	**Manufacture date**	23 May 2026
Mol. weight	4113.58 g/mol	**Date of analysis**	2 Jun 2026
CAS number	910463-68-2	**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 4113.58 Da	4113.63 Da (Δ 12 ppm)	**PASS**
Purity	RP-HPLC, UV 220 nm	≥ 98.0% area	98.86%	**PASS**
Related substances	RP-HPLC	Single ≤1.0 / Total ≤2.0%	0.67 / 1.14%	**PASS**
Water content	Karl Fischer (USP <921>)	≤ 8.0%	2.7%	**PASS**
Counter-ion: acetate	Ion chromatography	Report (3.0–15.0%)	5.6%	**PASS**
Net peptide content	Amino-acid analysis	≥ 80.0%	90.0%	**PASS**
Bacterial endotoxin	LAL kinetic (USP <85>)	< 5.0 EU/mg	0.07 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 (≥ 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.

DZK.

Dr. Zhou Kai
Analyst · 2 Jun 2026 · Zhongxi Research Institute

DFH.

Dr. Fang Hong (QC Manager)
Approved by · 2 Jun 2026 · Zhongxi Research Institute

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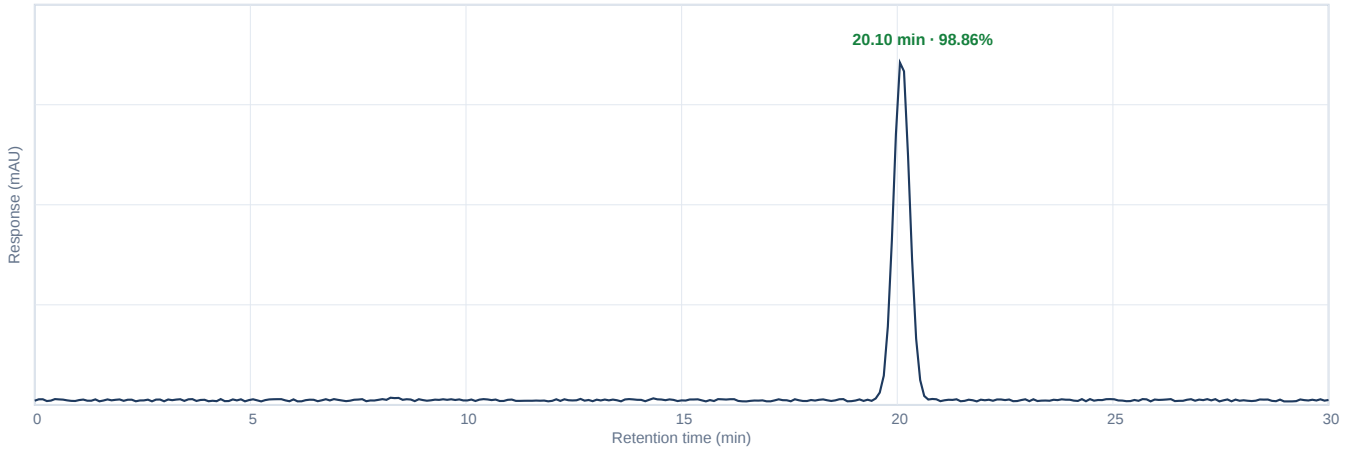
APPENDIX — ANALYTICAL RAW DATA

Semaglutide 10mg · Lot ZX260512-869 · Cert. ZXR-COA-2026-42770

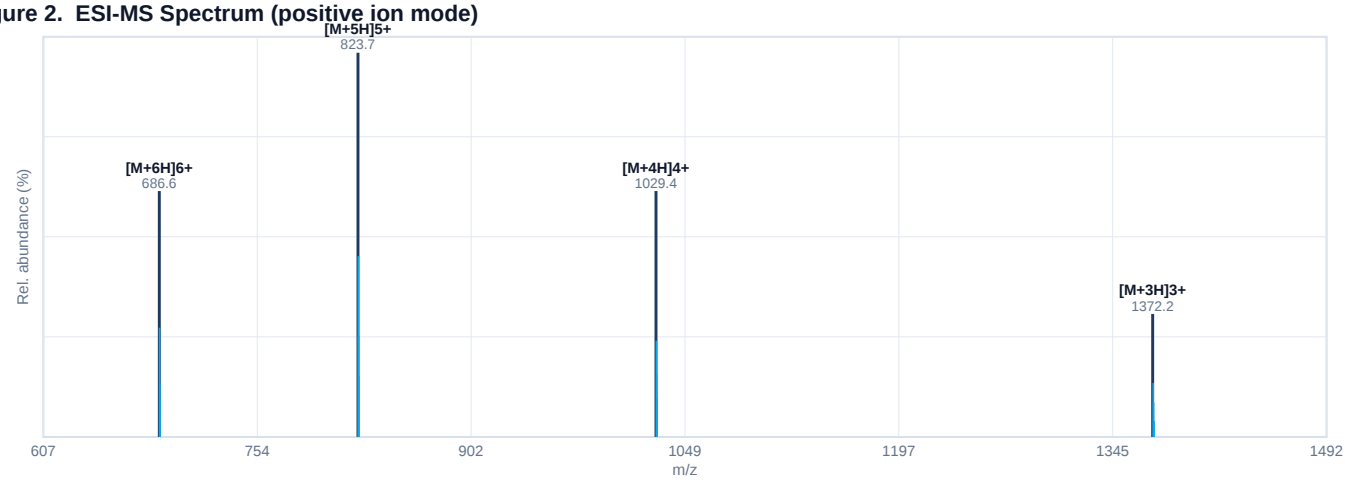
Scan to verify

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



Peak #	RT (min)	Area (μV·s)	Area %	Assignment
1	20.10	933673	98.86	Main (target)
2	8.30	5228	0.49	Impurity / related substance
3	14.46	3804	0.39	Impurity / related substance
4	12.66	1834	0.20	Impurity / related substance
5	7.70	568	0.06	Impurity / related substance

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



Interpretation

Identity confirmed by ESI-MS. Observed ions [M+3H]3+ 1372.2, [M+4H]4+ 1029.4, [M+5H]5+ 823.7, [M+6H]6+ 686.6 deconvolute to a neutral monoisotopic-average mass of 4113.63 Da (theoretical 4113.58 Da; mass error 12 ppm), consistent with Semaglutide. 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.

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CERTIFICATE OF ANALYSIS

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

PASS
QC released for dispatch

Scan to verify

Semaglutide — 20mg

GLP-1 Receptor Agonist

1. PRODUCT IDENTIFICATION

Synonym	GLP-1 Receptor Agonist	**Label claim**	20mg
Sequence / structure	GLP-1 analogue (Aib8, Arg34, C18-diacid @Lys26)	**Lot / Batch**	ZX260512-136 / B17074
Mol. formula	C187H291N45O59	**Manufacture date**	2 Jun 2026
Mol. weight	4113.58 g/mol	**Date of analysis**	13 Jun 2026
CAS number	910463-68-2	**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 4113.58 Da	4113.63 Da (Δ 12 ppm)	**PASS**
Purity	RP-HPLC, UV 220 nm	≥ 98.0% area	98.71%	**PASS**
Related substances	RP-HPLC	Single ≤1.0 / Total ≤2.0%	0.58 / 1.29%	**PASS**
Water content	Karl Fischer (USP <921>)	≤ 8.0%	3.1%	**PASS**
Counter-ion: acetate	Ion chromatography	Report (3.0–15.0%)	4.7%	**PASS**
Net peptide content	Amino-acid analysis	≥ 80.0%	90.1%	**PASS**
Bacterial endotoxin	LAL kinetic (USP <85>)	< 5.0 EU/mg	0.06 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 (≥ 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.

DHR.

Dr. Huang Rui
Analyst · 13 Jun 2026 · Zhongxi Research Institute

DGT.

Dr. Guo Tao (QC Manager)
Approved by · 13 Jun 2026 · Zhongxi Research Institute

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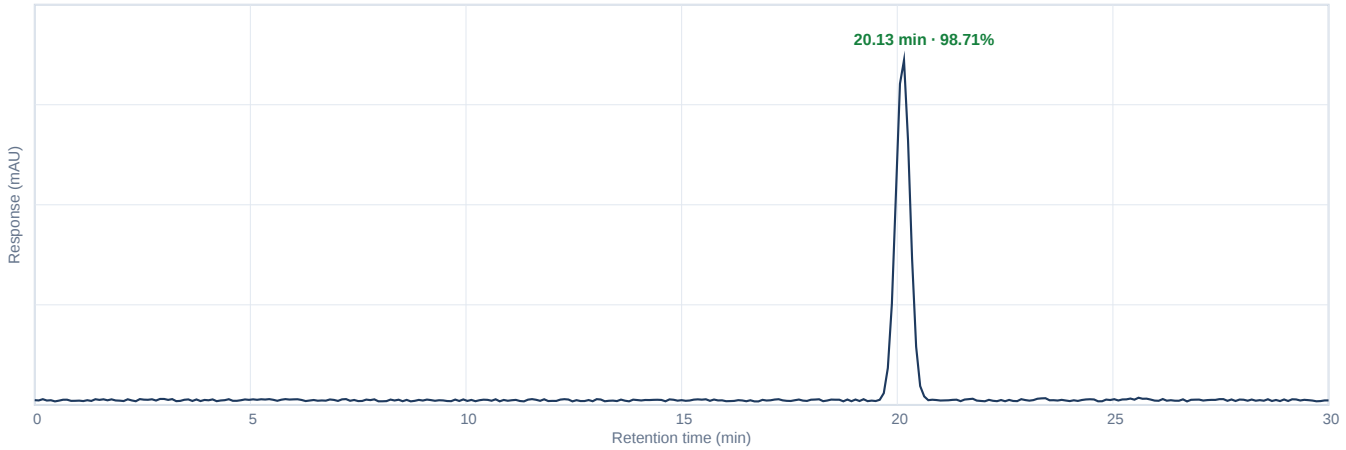
APPENDIX — ANALYTICAL RAW DATA

Semaglutide 20mg · Lot ZX260512-136 · Cert. ZXR-COA-2026-50648

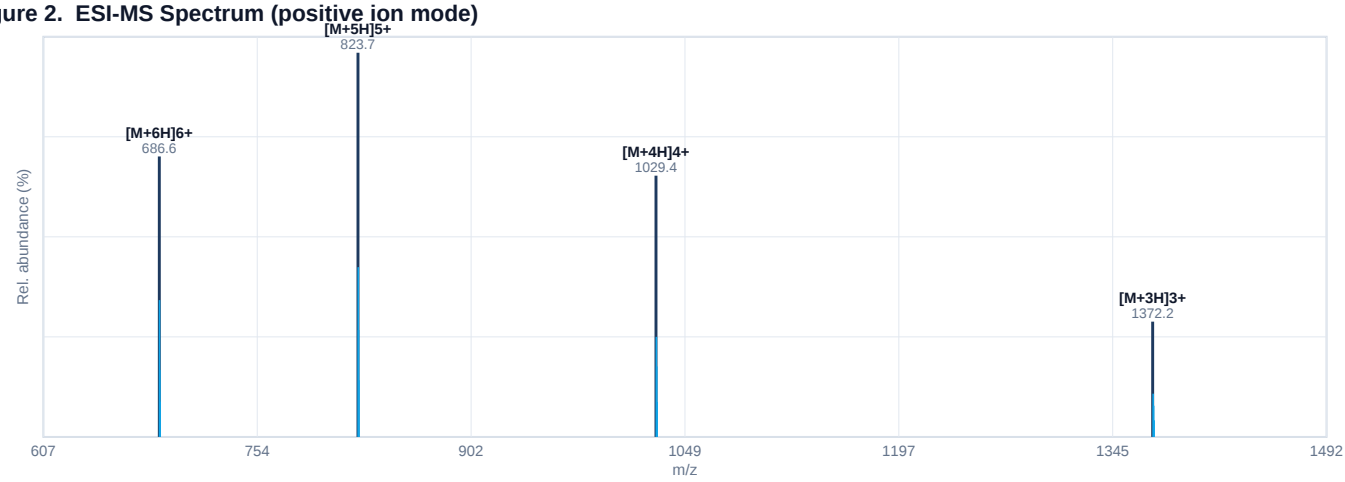
Scan to verify

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



Peak #	RT (min)	Area (μV·s)	Area %	Assignment
1	20.13	952062	98.71	Main (target)
2	25.70	4848	0.53	Impurity / related substance
3	23.43	3205	0.35	Impurity / related substance
4	2.96	2593	0.24	Impurity / related substance
5	21.74	1609	0.17	Impurity / related substance

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



Interpretation

Identity confirmed by ESI-MS. Observed ions [M+3H]3+ 1372.2, [M+4H]4+ 1029.4, [M+5H]5+ 823.7, [M+6H]6+ 686.6 deconvolute to a neutral monoisotopic-average mass of 4113.63 Da (theoretical 4113.58 Da; mass error 12 ppm), consistent with Semaglutide. 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.

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CERTIFICATE OF ANALYSIS

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

PASS
QC released for dispatch

Scan to verify

AOD-9604 — 5mg

Anti-Obesity Drug 9604

1. PRODUCT IDENTIFICATION

Synonym	Anti-Obesity Drug 9604	**Label claim**	5mg
Sequence / structure	Tyr-Leu-Arg-Ile-Val-Gln-Cys-Arg-Ser-Val-Glu-Gly-Ser-Cys-Gly-Phe (S-S 7-14)	**Lot / Batch**	ZX260512-466 / B44662
Mol. formula	C78H123N23O23S2	**Manufacture date**	24 May 2026
Mol. weight	1815.08 g/mol	**Date of analysis**	29 May 2026
CAS number	221231-10-3	**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 1815.08 Da	1815.08 Da (Δ 0 ppm)	**PASS**
Purity	RP-HPLC, UV 220 nm	≥ 98.0% area	99.65%	**PASS**
Related substances	RP-HPLC	Single ≤1.0 / Total ≤2.0%	0.22 / 0.35%	**PASS**
Water content	Karl Fischer (USP <921>)	≤ 8.0%	1.2%	**PASS**
Counter-ion: acetate	Ion chromatography	Report (3.0–15.0%)	8.1%	**PASS**
Net peptide content	Amino-acid analysis	≥ 80.0%	90.0%	**PASS**
Bacterial endotoxin	LAL kinetic (USP <85>)	< 5.0 EU/mg	0.12 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 (≥ 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.

DXP.

Dr. Xu Ping
Analyst · 29 May 2026 · Zhongxi Research Institute

DFH.

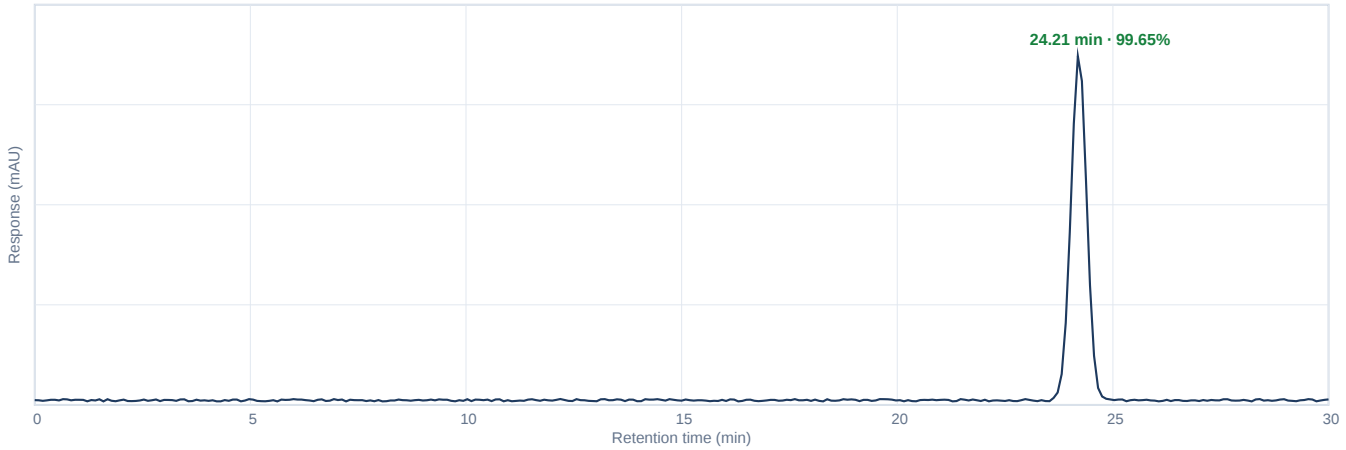
Dr. Fang Hong (QC Manager)
Approved by · 29 May 2026 · Zhongxi Research Institute

APPENDIX — ANALYTICAL RAW DATA

AOD-9604 5mg · Lot ZX260512-466 · Cert. ZXR-COA-2026-79714

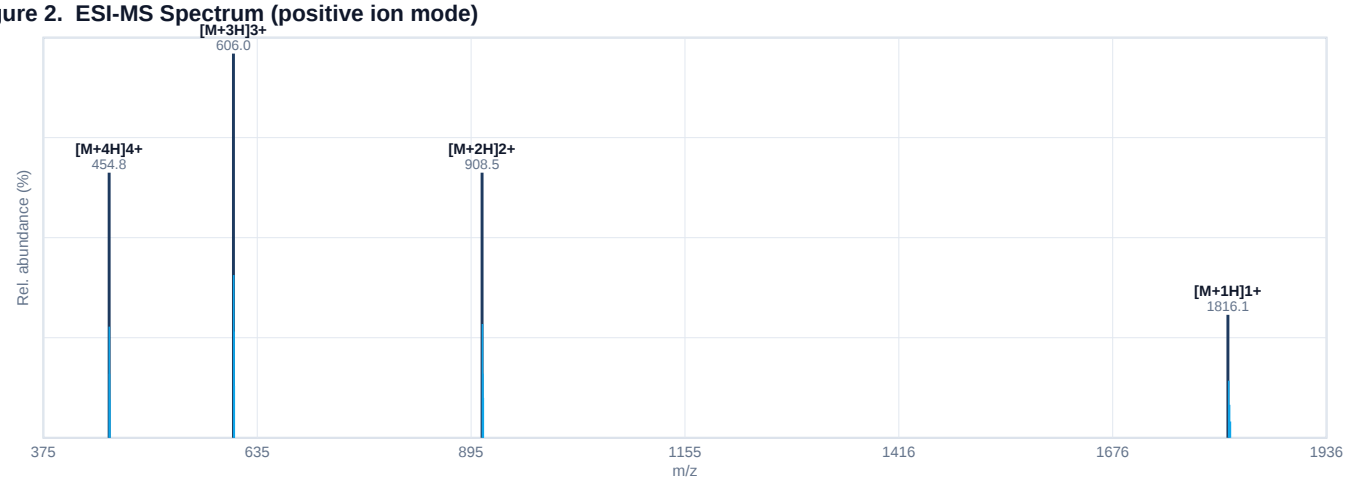
Scan to verify

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



Peak #	RT (min)	Area (μV·s)	Area %	Assignment
1	24.21	1067052	99.65	Main (target)
2	12.10	1254	0.12	Impurity / related substance
3	15.88	1099	0.12	Impurity / related substance
4	19.69	1085	0.11	Impurity / related substance

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



Interpretation

Identity confirmed by ESI-MS. Observed ions [M+1H]1+ 1816.1, [M+2H]2+ 908.5, [M+3H]3+ 606.0, [M+4H]4+ 454.8 deconvolute to a neutral monoisotopic-average mass of 1815.08 Da (theoretical 1815.08 Da; mass error 0 ppm), consistent with AOD-9604. 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.

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CERTIFICATE OF ANALYSIS

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PASS
QC released for dispatch

Scan to verify

AOD-9604 — 10mg

Anti-Obesity Drug 9604

1. PRODUCT IDENTIFICATION

Synonym	Anti-Obesity Drug 9604	**Label claim**	10mg
Sequence / structure	Tyr-Leu-Arg-Ile-Val-Gln-Cys-Arg-Ser-Val-Glu-Gly-Ser-Cys-Gly-Phe (S-S 7-14)	**Lot / Batch**	ZX260512-671 / B66791
Mol. formula	C78H123N23O23S2	**Manufacture date**	13 May 2026
Mol. weight	1815.08 g/mol	**Date of analysis**	16 May 2026
CAS number	221231-10-3	**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 1815.08 Da	1815.08 Da (Δ 0 ppm)	**PASS**
Purity	RP-HPLC, UV 220 nm	≥ 98.0% area	99.72%	**PASS**
Related substances	RP-HPLC	Single ≤1.0 / Total ≤2.0%	0.17 / 0.28%	**PASS**
Water content	Karl Fischer (USP <921>)	≤ 8.0%	4.1%	**PASS**
Counter-ion: acetate	Ion chromatography	Report (3.0–15.0%)	9.0%	**PASS**
Net peptide content	Amino-acid analysis	≥ 80.0%	86.0%	**PASS**
Bacterial endotoxin	LAL kinetic (USP <85>)	< 5.0 EU/mg	0.06 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 (≥ 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.

DXP.

Dr. Xu Ping
Analyst · 16 May 2026 · Zhongxi Research Institute

DFH.

Dr. Fang Hong (QC Manager)
Approved by · 16 May 2026 · Zhongxi Research Institute

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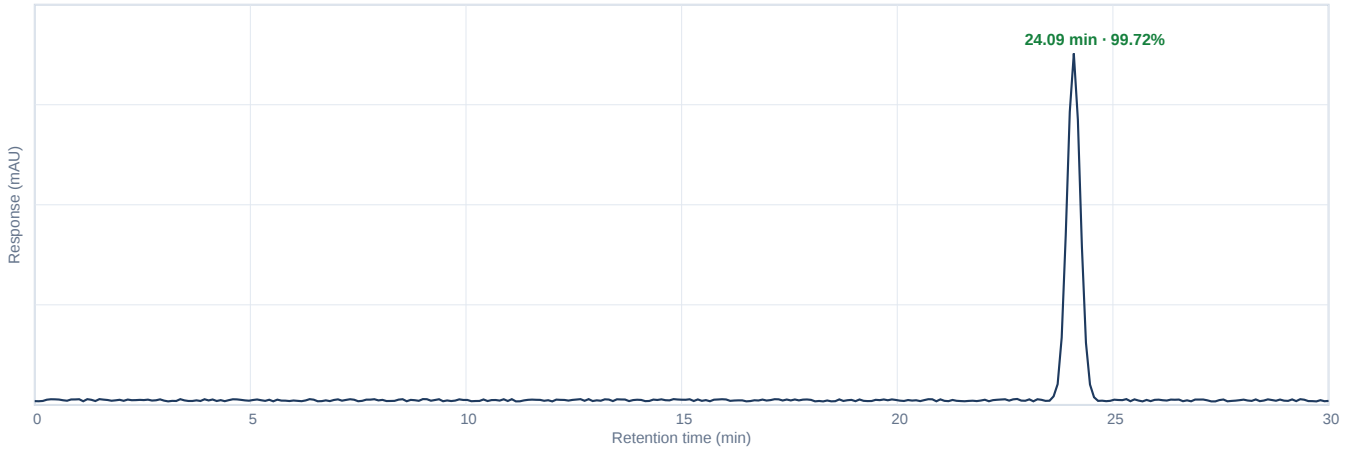
APPENDIX — ANALYTICAL RAW DATA

AOD-9604 10mg · Lot ZX260512-671 · Cert. ZXR-COA-2026-18493

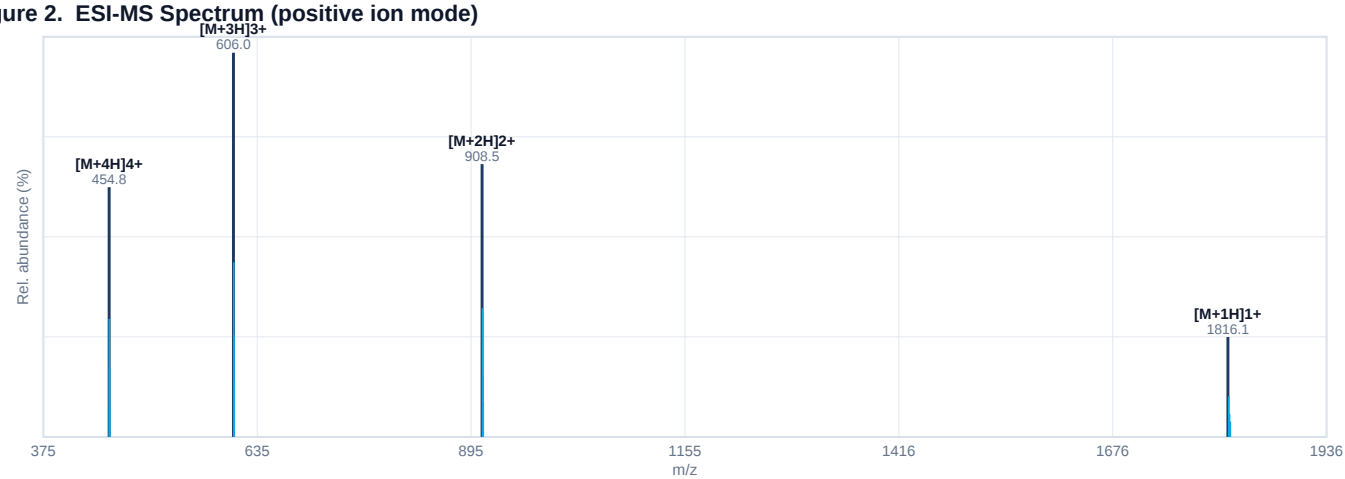
Scan to verify

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



Peak #	RT (min)	Area (μV·s)	Area %	Assignment
1	24.09	1043882	99.72	Main (target)
2	4.01	1247	0.13	Impurity / related substance
3	22.87	593	0.06	Impurity / related substance
4	7.81	497	0.05	Impurity / related substance
5	15.24	388	0.04	Impurity / related substance

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



Interpretation

Identity confirmed by ESI-MS. Observed ions [M+1H]1+ 1816.1, [M+2H]2+ 908.5, [M+3H]3+ 606.0, [M+4H]4+ 454.8 deconvolute to a neutral monoisotopic-average mass of 1815.08 Da (theoretical 1815.08 Da; mass error 0 ppm), consistent with AOD-9604. 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.

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CERTIFICATE OF ANALYSIS

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PASS
QC released for dispatch

Scan to verify

BPC-157 — 5mg

Body Protection Compound-157

1. PRODUCT IDENTIFICATION

Synonym	Body Protection Compound-157	**Label claim**	5mg
Sequence / structure	Gly-Glu-Pro-Pro-Pro-Gly-Lys-Pro-Ala-Asp-Asp-Ala-Gly-Leu-Val	**Lot / Batch**	ZX260512-985 / B33810
Mol. formula	C62H98N16O22	**Manufacture date**	15 May 2026
Mol. weight	1419.54 g/mol	**Date of analysis**	19 May 2026
CAS number	137525-51-0	**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 1419.54 Da	1419.55 Da (Δ 7 ppm)	**PASS**
Purity	RP-HPLC, UV 220 nm	≥ 98.0% area	99.35%	**PASS**
Related substances	RP-HPLC	Single ≤1.0 / Total ≤2.0%	0.31 / 0.65%	**PASS**
Water content	Karl Fischer (USP <921>)	≤ 8.0%	2.0%	**PASS**
Counter-ion: acetate	Ion chromatography	Report (3.0–15.0%)	7.1%	**PASS**
Net peptide content	Amino-acid analysis	≥ 80.0%	90.0%	**PASS**
Bacterial endotoxin	LAL kinetic (USP <85>)	< 5.0 EU/mg	0.09 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 (≥ 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.

DZL.

Dr. Zhao Liang
Analyst · 19 May 2026 · Zhongxi Research Institute

DGT.

Dr. Guo Tao (QC Manager)
Approved by · 19 May 2026 · Zhongxi Research Institute

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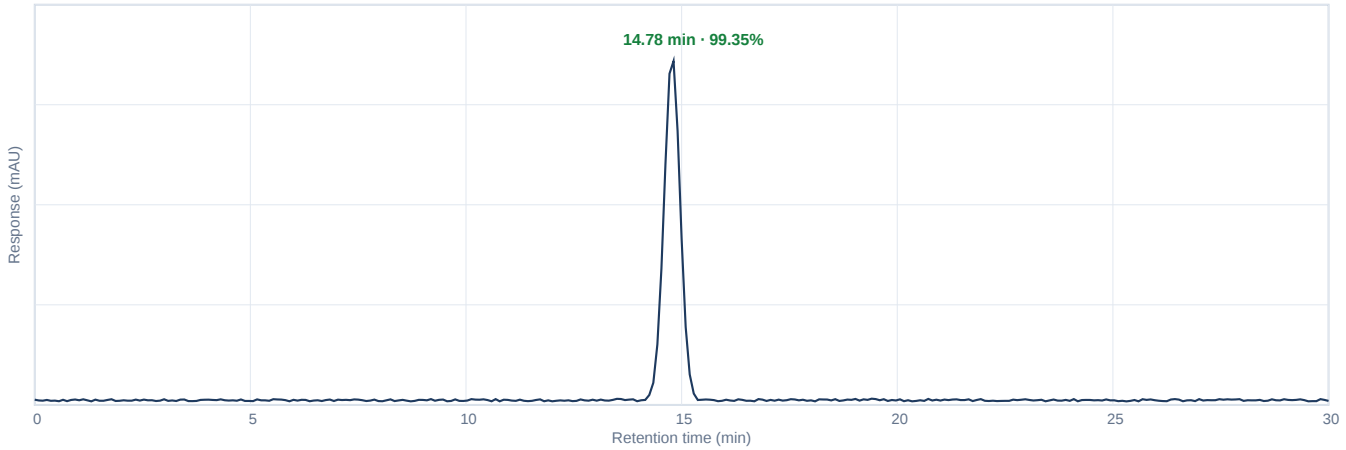
APPENDIX — ANALYTICAL RAW DATA

BPC-157 5mg · Lot ZX260512-985 · Cert. ZXR-COA-2026-56520

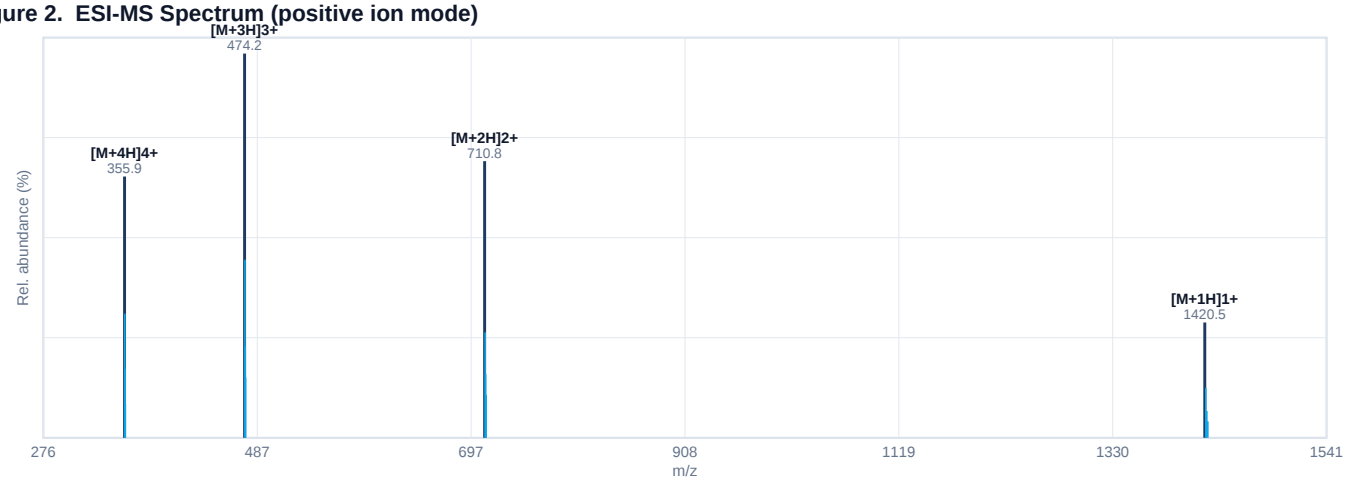
Scan to verify

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



Peak #	RT (min)	Area (µV·s)	Area %	Assignment
1	14.78	1048529	99.35	Main (target)
2	19.28	2616	0.28	Impurity / related substance
3	13.41	2470	0.25	Impurity / related substance
4	20.68	1218	0.12	Impurity / related substance

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



Interpretation

Identity confirmed by ESI-MS. Observed ions [M+1H]1+ 1420.5, [M+2H]2+ 710.8, [M+3H]3+ 474.2, [M+4H]4+ 355.9 deconvolute to a neutral monoisotopic-average mass of 1419.55 Da (theoretical 1419.54 Da; mass error 7 ppm), consistent with BPC-157. 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.

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https://www.yjsba.com/jcxm/qita/16188.html
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CERTIFICATE OF ANALYSIS

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

PASS
QC released for dispatch

Scan to verify

GLOW — 70mg

BPC-157 10mg + GHK-Cu 50mg + TB-500 10mg

1. PRODUCT IDENTIFICATION

Composition	BPC-157 10mg + GHK-Cu 50mg + TB-500 10mg	**Manufacture date**	26 May 2026
Type	Multi-component peptide blend	**Date of analysis**	4 Jun 2026
CAS	See component table	**Storage**	−20 °C, dark, desiccated
Label fill	70mg	**Client**	Rejenesis Enterprises LLC (Rejenesis Peptides)
Lot / Batch	ZX260512-733 / B56901		

2. ANALYTICAL TEST RESULTS

Test	Method	Specification	Result	Verdict
Appearance	Visual	White/off-white powder	White to off-white lyophilized powder	**PASS**
Identity (each component)	LC-MS	All components confirmed	Conforms	**PASS**
Component split	RP-HPLC quantitation	Each within ±10% of label	Conforms (see §3)	**PASS**
Water content	Karl Fischer	≤ 8.0%	2.5%	**PASS**
Counter-ion: acetate	Ion chromatography	Report (3.0–15.0%)	8.7%	**PASS**
Copper content (GHK-Cu)	ICP-MS (identity)	15.0–16.5% of GHK-Cu	15.9%	**PASS**
Bacterial endotoxin	LAL (USP <85>)	< 5.0 EU/mg	0.08 EU/mg	**PASS**
Heavy metals	ICP-MS (ICH Q3D)	Conforms	Conforms	**PASS**

3. COMPONENT-RESOLVED RESULTS

Component	CAS	Label → found	Identity (obs.)	Purity	Verdict
BPC-157	137525-51-0	10mg → 10.3mg	avg 1419.5 Da	99.63%	**PASS**
GHK-Cu	89030-95-5	50mg → 49.3mg	[M+H]+ 402.9	98.55%	**PASS**
TB-500	77591-33-4	10mg → 10.2mg	avg 4963.4 Da	99.52%	**PASS**

CONCLUSION
All tested parameters CONFORM to the acceptance specifications. The batch is of high chromatographic purity (≥ 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.

DZL.

Dr. Zhao Liang
Analyst · 4 Jun 2026 · Zhongxi Research Institute

DGT.

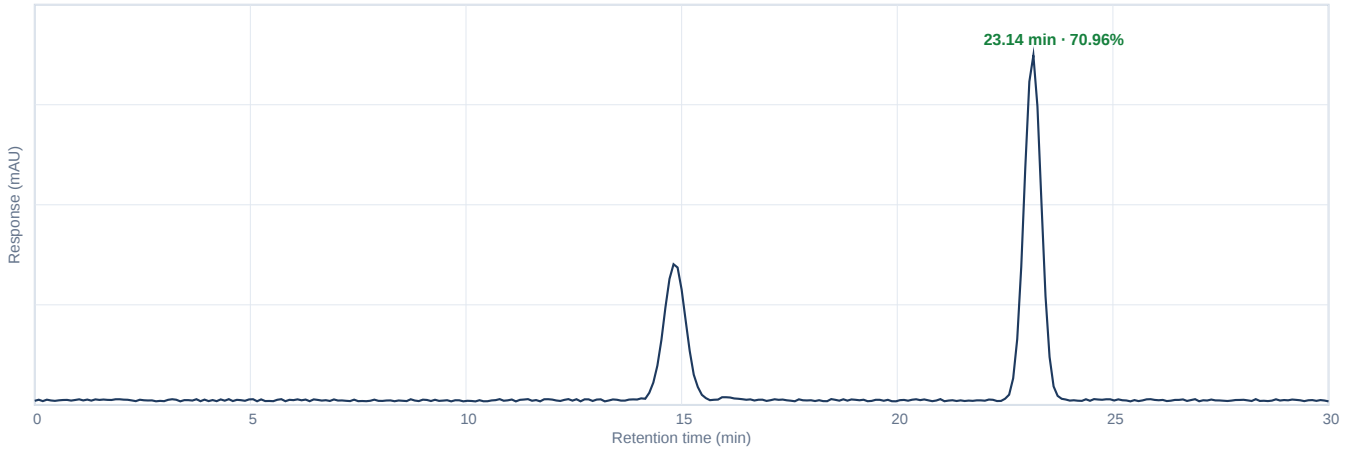
Dr. Guo Tao (QC Manager)
Approved by · 4 Jun 2026 · Zhongxi Research Institute

APPENDIX — ANALYTICAL RAW DATA

GLOW 70mg · Lot ZX260512-733 · Cert. ZXR-COA-2026-94438

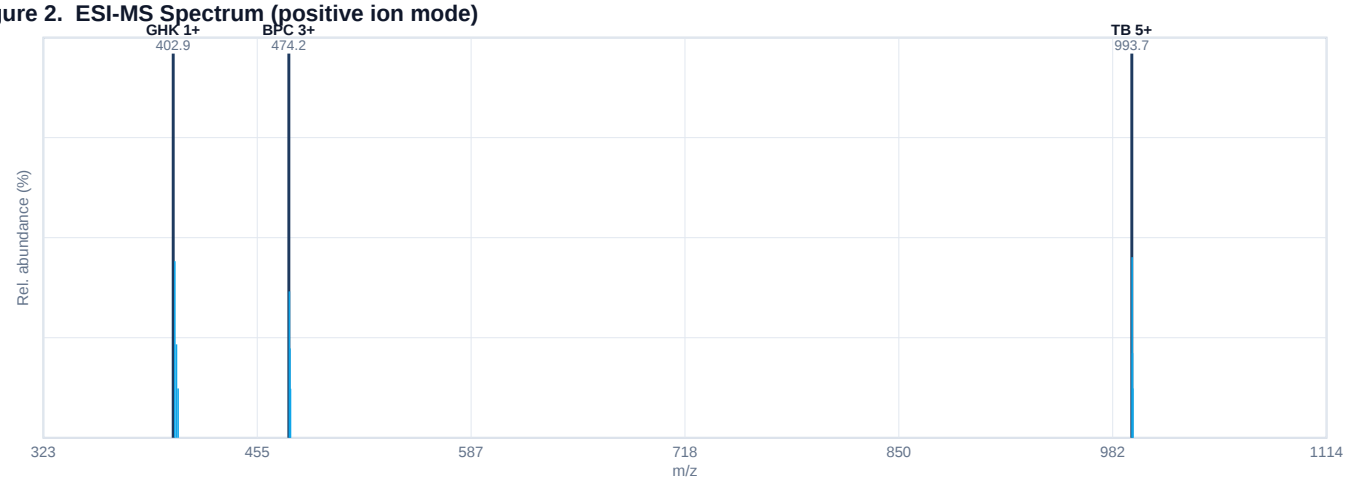
Scan to verify

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



Peak #	RT (min)	Area (µV·s)	Area %	Assignment
1	23.14	748787	70.96	GHK-Cu
2	14.82	152045	14.19	BPC-157
3	14.86	152545	14.19	TB-500
4	16.05	6172	0.66	Impurity / related substance

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



Interpretation

Spectrum shows overlapping charge-state envelopes for each component, resolved by LC-MS. Deconvoluted component masses: BPC-157 1419.5 Da (Δ 7 ppm); GHK-Cu 401.9 Da (Δ 0 ppm); TB-500 4963.4 Da (Δ -4 ppm) — each matching its reference standard. Component identities confirmed; per-component HPLC quantitation in Section 3.

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.

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CERTIFICATE OF ANALYSIS

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PASS
QC released for dispatch

Scan to verify

KLOW — 80mg

GHK-Cu 50mg + BPC-157 10mg + TB-500 10mg + KPV 10mg

1. PRODUCT IDENTIFICATION

Composition	GHK-Cu 50mg + BPC-157 10mg + TB-500 10mg + KPV 10mg	**Manufacture date**	17 May 2026
Type	Multi-component peptide blend	**Date of analysis**	28 May 2026
CAS	See component table	**Storage**	−20 °C, dark, desiccated
Label fill	80mg	**Client**	Rejenesis Enterprises LLC (Rejenesis Peptides)
Lot / Batch	ZX260512-916 / B73524		

2. ANALYTICAL TEST RESULTS

Test	Method	Specification	Result	Verdict
Appearance	Visual	White/off-white powder	White to off-white lyophilized powder	**PASS**
Identity (each component)	LC-MS	All components confirmed	Conforms	**PASS**
Component split	RP-HPLC quantitation	Each within ±10% of label	Conforms (see §3)	**PASS**
Water content	Karl Fischer	≤ 8.0%	2.9%	**PASS**
Counter-ion: acetate	Ion chromatography	Report (3.0–15.0%)	10.0%	**PASS**
Copper content (GHK-Cu)	ICP-MS (identity)	15.0–16.5% of GHK-Cu	15.6%	**PASS**
Bacterial endotoxin	LAL (USP <85>)	< 5.0 EU/mg	0.05 EU/mg	**PASS**
Heavy metals	ICP-MS (ICH Q3D)	Conforms	Conforms	**PASS**

3. COMPONENT-RESOLVED RESULTS

Component	CAS	Label → found	Identity (obs.)	Purity	Verdict
GHK-Cu	89030-95-5	50mg → 51.2mg	[M+H]+ 402.9	98.48%	**PASS**
BPC-157	137525-51-0	10mg → 9.6mg	avg 1419.5 Da	99.72%	**PASS**
TB-500	77591-33-4	10mg → 9.9mg	avg 4963.4 Da	98.42%	**PASS**
KPV	67727-97-3	10mg → 10.1mg	[M+H]+ 343.4	98.47%	**PASS**

CONCLUSION
All tested parameters CONFORM to the acceptance specifications. The batch is of high chromatographic purity (≥ 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 · 28 May 2026 · Zhongxi Research Institute

DGT.

Dr. Guo Tao (QC Manager)
Approved by · 28 May 2026 · Zhongxi Research Institute

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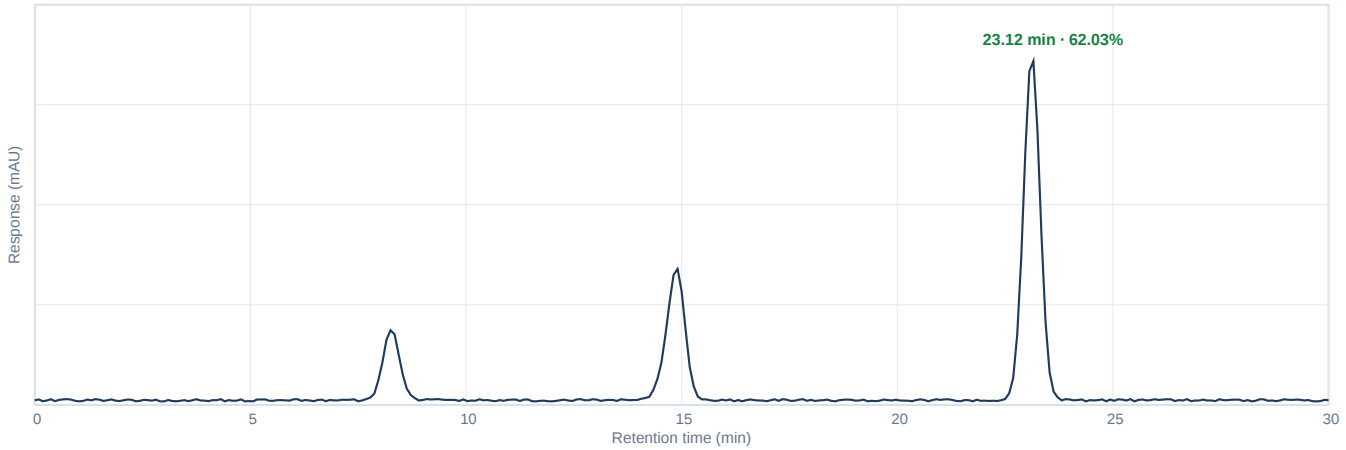
APPENDIX — ANALYTICAL RAW DATA

KLOW 80mg · Lot ZX260512-916 · Cert. ZXR-COA-2026-97212

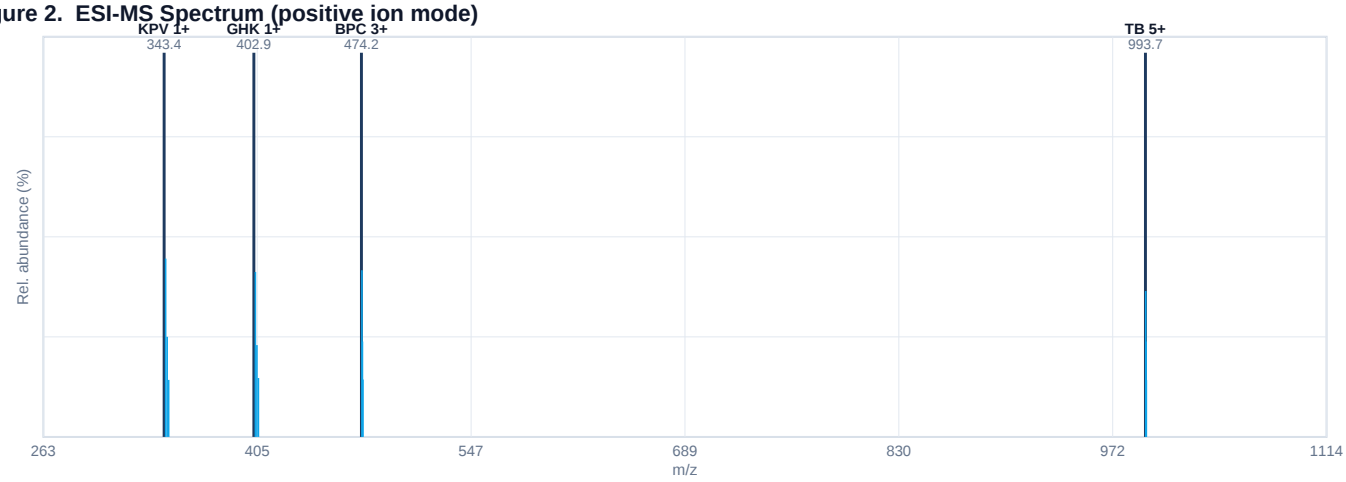
Scan to verify

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



Peak #	RT (min)	Area (µV·s)	Area %	Assignment
1	23.12	601724	62.03	GHK-Cu
2	8.26	135121	12.41	KPV
3	14.80	125964	12.41	TB-500
4	14.92	125527	12.41	BPC-157
5	8.50	7315	0.75	Impurity / related substance

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



Interpretation

Spectrum shows overlapping charge-state envelopes for each component, resolved by LC-MS. Deconvoluted component masses: GHK-Cu 401.9 Da (Δ 0 ppm); BPC-157 1419.6 Da (Δ 14 ppm); TB-500 4963.4 Da (Δ -2 ppm); KPV 342.4 Da (Δ 0 ppm) — each matching its reference standard. Component identities confirmed; per-component HPLC quantitation in Section 3.

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.

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CERTIFICATE OF ANALYSIS

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

PASS
QC released for dispatch

Scan to verify

CJC-1295 + Ipamorelin — 10mg

CJC-1295 (No DAC) 5mg + Ipamorelin 5mg

1. PRODUCT IDENTIFICATION

Composition	CJC-1295 (No DAC) 5mg + Ipamorelin 5mg	**Manufacture date**	15 May 2026
Type	Multi-component peptide blend	**Date of analysis**	23 May 2026
CAS	See component table	**Storage**	−20 °C, dark, desiccated
Label fill	10mg	**Client**	Rejenesis Enterprises LLC (Rejenesis Peptides)
Lot / Batch	ZX260512-614 / B28586		

2. ANALYTICAL TEST RESULTS

Test	Method	Specification	Result	Verdict
Appearance	Visual	White/off-white powder	White to off-white lyophilized powder	**PASS**
Identity (each component)	LC-MS	All components confirmed	Conforms	**PASS**
Component split	RP-HPLC quantitation	Each within ±10% of label	Conforms (see §3)	**PASS**
Water content	Karl Fischer	≤ 8.0%	1.1%	**PASS**
Counter-ion: acetate	Ion chromatography	Report (3.0–15.0%)	9.8%	**PASS**
Bacterial endotoxin	LAL (USP <85>)	< 5.0 EU/mg	0.15 EU/mg	**PASS**
Heavy metals	ICP-MS (ICH Q3D)	Conforms	Conforms	**PASS**

3. COMPONENT-RESOLVED RESULTS

Component	CAS	Label → found	Identity (obs.)	Purity	Verdict
CJC-1295 (No DAC)	863288-34-0	5mg → 5.1mg	avg 3368.0 Da	98.89%	**PASS**
Ipamorelin	170851-70-4	5mg → 5.1mg	[M+H]+ 712.9	98.66%	**PASS**

CONCLUSION
All tested parameters CONFORM to the acceptance specifications. The batch is of high chromatographic purity (≥ 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 · 23 May 2026 · Zhongxi Research Institute

DFH.

Dr. Fang Hong (QC Manager)
Approved by · 23 May 2026 · Zhongxi Research Institute

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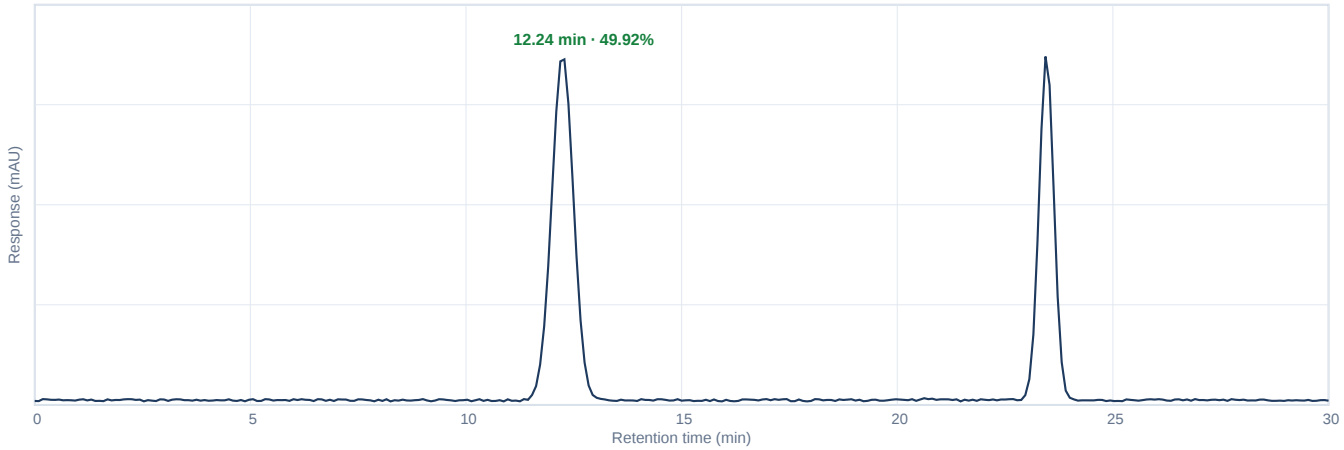
APPENDIX — ANALYTICAL RAW DATA

CJC-1295 + Ipamorelin 10mg · Lot ZX260512-614 · Cert. ZXR-COA-2026-26303

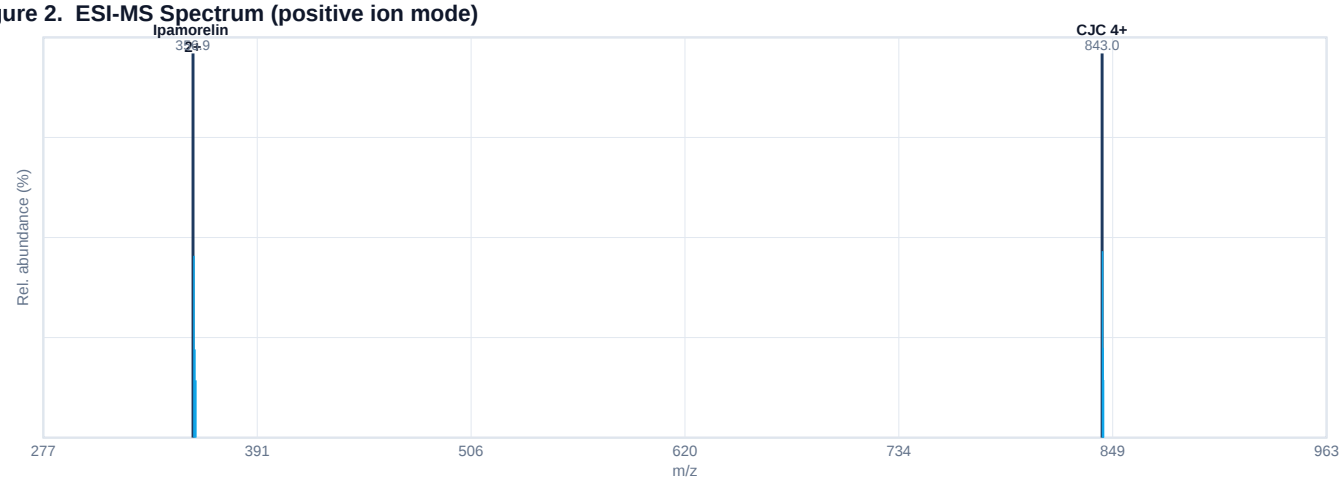
Scan to verify

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



Peak #	RT (min)	Area (µV·s)	Area %	Assignment
1	12.24	536922	49.92	Ipamorelin
2	23.46	521287	49.92	CJC-1295 (No DAC)
3	20.66	1458	0.16	Impurity / related substance

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



Interpretation

Spectrum shows overlapping charge-state envelopes for each component, resolved by LC-MS. Deconvoluted component masses: CJC-1295 (No DAC) 3368.0 Da (Δ 3 ppm); Ipamorelin 711.9 Da (Δ 0 ppm) — each matching its reference standard. Component identities confirmed; per-component HPLC quantitation in Section 3.

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.

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CERTIFICATE OF ANALYSIS

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PASS
QC released for dispatch

Scan to verify

Wolverine Stack — 10mg total (5mg each)

BPC-157 5mg + TB-500 5mg (10mg total)

1. PRODUCT IDENTIFICATION

Composition	BPC-157 5mg + TB-500 5mg (10mg total)	**Manufacture date**	29 May 2026
Type	Multi-component peptide blend	**Date of analysis**	3 Jun 2026
CAS	See component table	**Storage**	−20 °C, dark, desiccated
Label fill	10mg total (5mg each)	**Client**	Rejenesis Enterprises LLC (Rejenesis Peptides)
Lot / Batch	ZX260512-463 / B75841		

2. ANALYTICAL TEST RESULTS

Test	Method	Specification	Result	Verdict
Appearance	Visual	White/off-white powder	White to off-white lyophilized powder	**PASS**
Identity (each component)	LC-MS	All components confirmed	Conforms	**PASS**
Component split	RP-HPLC quantitation	Each within ±10% of label	Conforms (see §3)	**PASS**
Water content	Karl Fischer	≤ 8.0%	3.8%	**PASS**
Counter-ion: acetate	Ion chromatography	Report (3.0–15.0%)	5.4%	**PASS**
Bacterial endotoxin	LAL (USP <85>)	< 5.0 EU/mg	0.14 EU/mg	**PASS**
Heavy metals	ICP-MS (ICH Q3D)	Conforms	Conforms	**PASS**

3. COMPONENT-RESOLVED RESULTS

Component	CAS	Label → found	Identity (obs.)	Purity	Verdict
BPC-157	137525-51-0	5mg → 4.9mg	avg 1419.5 Da	99.36%	**PASS**
TB-500	77591-33-4	5mg → 4.8mg	avg 4963.4 Da	99.57%	**PASS**

CONCLUSION

All tested parameters CONFORM to the acceptance specifications. The batch is of high chromatographic purity (≥ 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.

DZK.

Dr. Zhou Kai
Analyst · 3 Jun 2026 · Zhongxi Research Institute

DLX.

Dr. Lin Xia (QC Manager)
Approved by · 3 Jun 2026 · Zhongxi Research Institute

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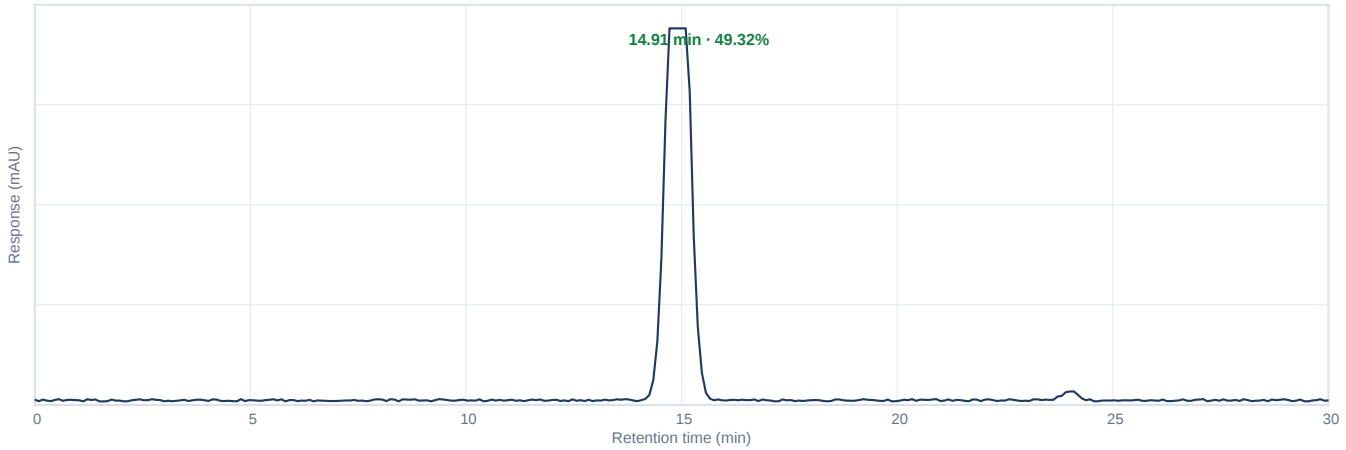
APPENDIX — ANALYTICAL RAW DATA

Wolverine Stack 10mg total (5mg each) · Lot ZX260512-463 · Cert. ZXR-COA-2026-78548

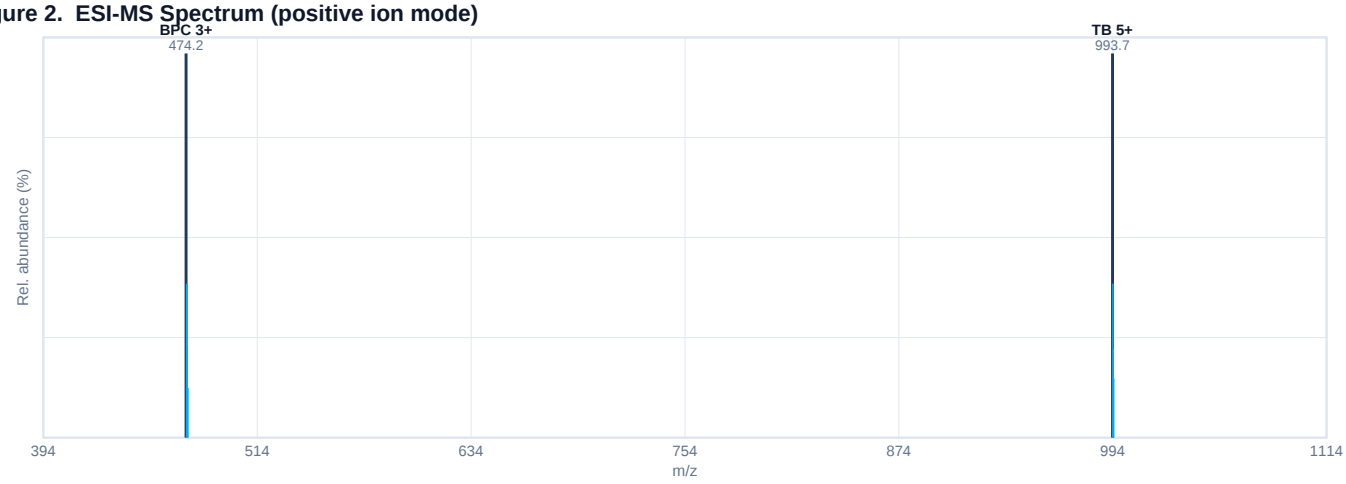
Scan to verify

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



Peak #	RT (min)	Area (µV·s)	Area %	Assignment
1	14.91	455629	49.32	TB-500
2	14.92	464308	49.32	BPC-157
3	24.00	13704	1.36	Impurity / related substance

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



Interpretation

Spectrum shows overlapping charge-state envelopes for each component, resolved by LC-MS. Deconvoluted component masses: BPC-157 1419.5 Da (Δ 7 ppm); TB-500 4963.5 Da (Δ 10 ppm) — each matching its reference standard. Component identities confirmed; per-component HPLC quantitation in Section 3.

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.

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CERTIFICATE OF ANALYSIS

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

PASS
QC released for dispatch

Scan to verify

Wolverine Stack — 20mg total (10mg each)

BPC-157 10mg + TB-500 10mg (20mg total)

1. PRODUCT IDENTIFICATION

Composition	BPC-157 10mg + TB-500 10mg (20mg total)	**Manufacture date**	15 May 2026
Type	Multi-component peptide blend	**Date of analysis**	25 May 2026
CAS	See component table	**Storage**	−20 °C, dark, desiccated
Label fill	20mg total (10mg each)	**Client**	Rejenesis Enterprises LLC (Rejenesis Peptides)
Lot / Batch	ZX260512-892 / B66043		

2. ANALYTICAL TEST RESULTS

Test	Method	Specification	Result	Verdict
Appearance	Visual	White/off-white powder	White to off-white lyophilized powder	**PASS**
Identity (each component)	LC-MS	All components confirmed	Conforms	**PASS**
Component split	RP-HPLC quantitation	Each within ±10% of label	Conforms (see §3)	**PASS**
Water content	Karl Fischer	≤ 8.0%	4.3%	**PASS**
Counter-ion: acetate	Ion chromatography	Report (3.0–15.0%)	10.6%	**PASS**
Bacterial endotoxin	LAL (USP <85>)	< 5.0 EU/mg	0.03 EU/mg	**PASS**
Heavy metals	ICP-MS (ICH Q3D)	Conforms	Conforms	**PASS**

3. COMPONENT-RESOLVED RESULTS

Component	CAS	Label → found	Identity (obs.)	Purity	Verdict
BPC-157	137525-51-0	10mg → 10mg	avg 1419.5 Da	99.12%	**PASS**
TB-500	77591-33-4	10mg → 9.7mg	avg 4963.4 Da	99.33%	**PASS**

CONCLUSION

All tested parameters CONFORM to the acceptance specifications. The batch is of high chromatographic purity (≥ 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.

DXP.

Dr. Xu Ping
Analyst · 25 May 2026 · Zhongxi Research Institute

DFH.

Dr. Fang Hong (QC Manager)
Approved by · 25 May 2026 · Zhongxi Research Institute

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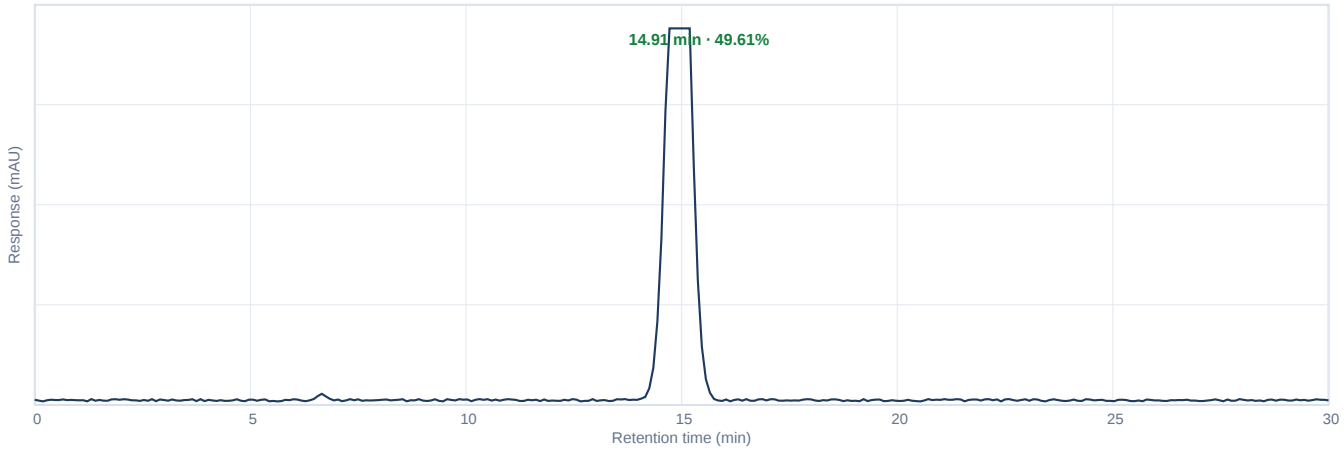
APPENDIX — ANALYTICAL RAW DATA

Wolverine Stack 20mg total (10mg each) · Lot ZX260512-892 · Cert. ZXR-COA-2026-97888

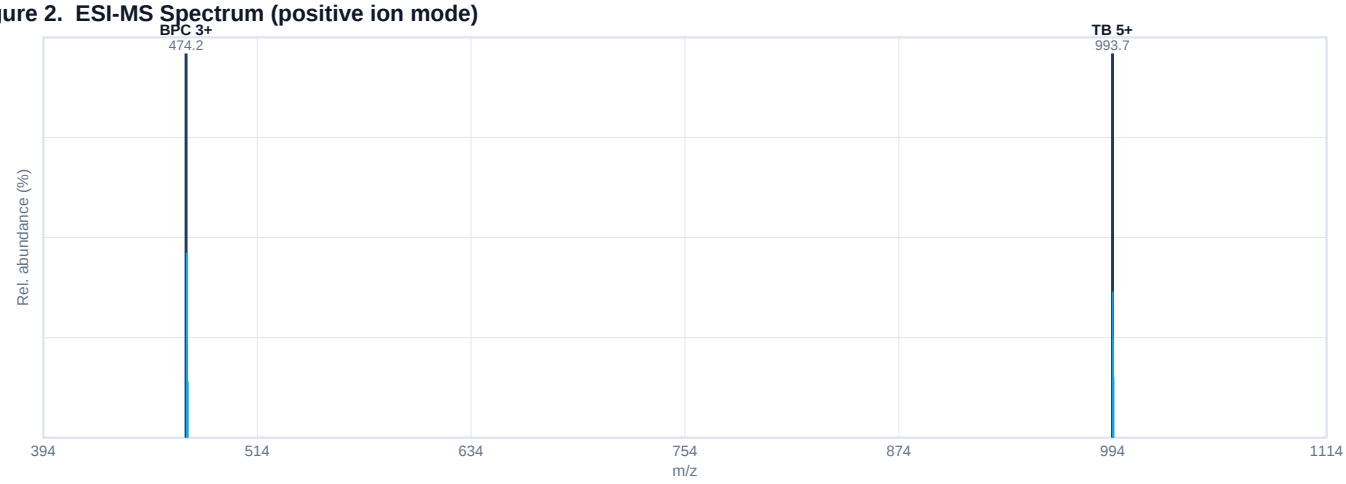
Scan to verify

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



Peak #	RT (min)	Area (µV·s)	Area %	Assignment
1	14.91	508902	49.61	BPC-157
2	14.96	464927	49.61	TB-500
3	6.64	8040	0.78	Impurity / related substance

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



Interpretation

Spectrum shows overlapping charge-state envelopes for each component, resolved by LC-MS. Deconvoluted component masses: BPC-157 1419.5 Da (Δ 0 ppm); TB-500 4963.4 Da (Δ 0 ppm) — each matching its reference standard. Component identities confirmed; per-component HPLC quantitation in Section 3.

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.

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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)]-NH2	**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	≥ 98.0% area	99.76%	**PASS**
Related substances	RP-HPLC	Single ≤1.0 / Total ≤2.0%	0.14 / 0.24%	**PASS**
Water content	Karl Fischer (USP <921>)	≤ 8.0%	2.8%	**PASS**
Counter-ion: acetate	Ion chromatography	Report (3.0–15.0%)	10.4%	**PASS**
Net peptide content	Amino-acid analysis	≥ 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 (≥ 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

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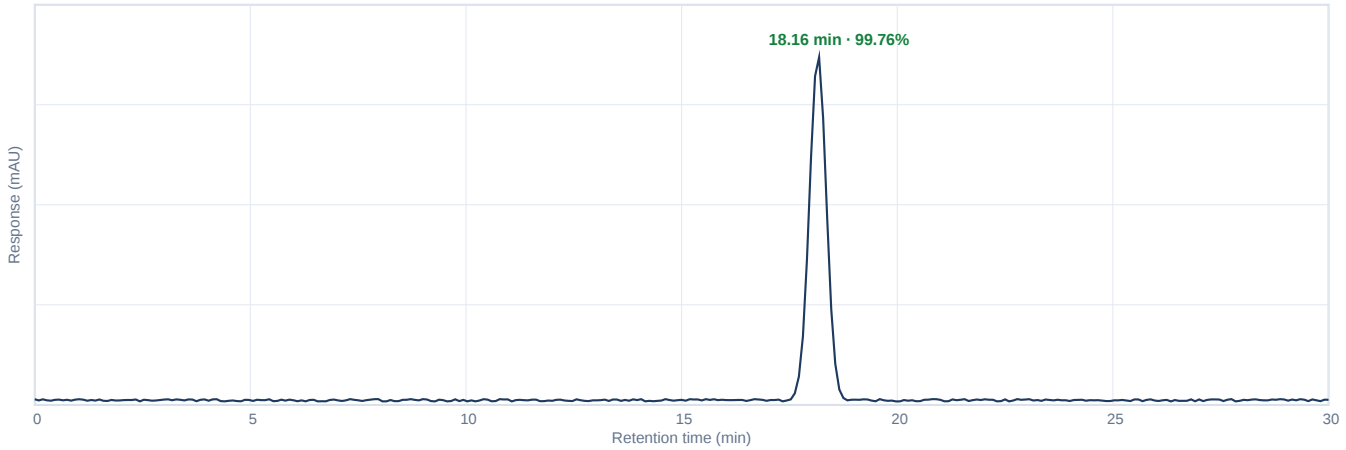
APPENDIX — ANALYTICAL RAW DATA

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

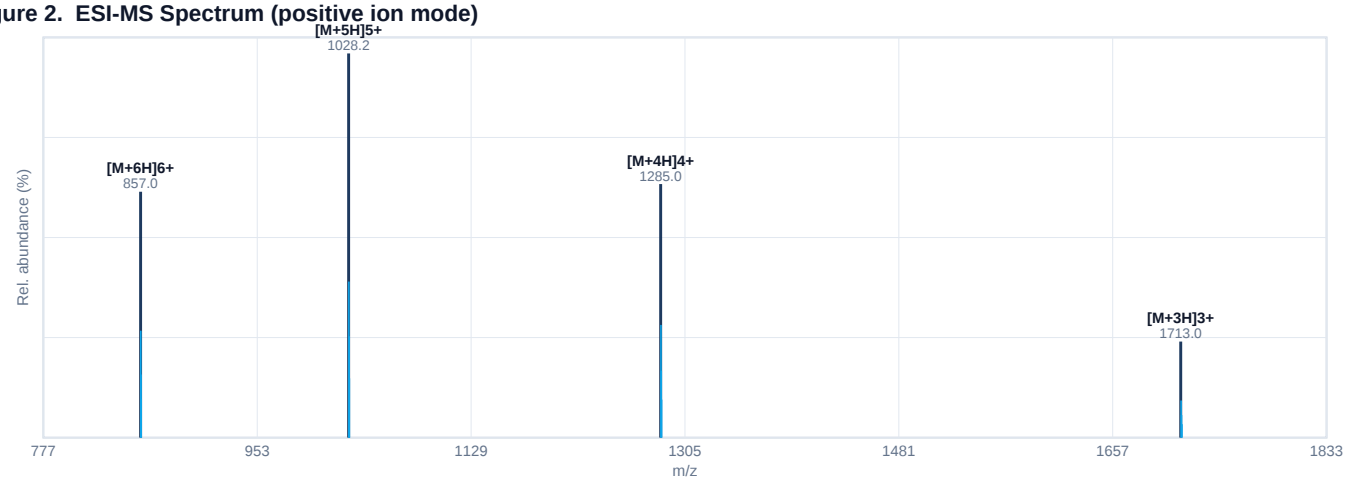
Scan to verify

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.

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CERTIFICATE OF ANALYSIS

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

PASS
QC released for dispatch

Scan to verify

Gonadorelin Acetate — 5mg

Gonadotropin-Releasing Hormone (GnRH)

1. PRODUCT IDENTIFICATION

Synonym	Gonadotropin-Releasing Hormone (GnRH)	**Label claim**	5mg
Sequence / structure	pGlu-His-Trp-Ser-Tyr-Gly-Leu-Arg-Pro-Gly-NH2	**Lot / Batch**	ZX260512-737 / B65965
Mol. formula	C55H75N17O13	**Manufacture date**	16 May 2026
Mol. weight	1182.29 g/mol	**Date of analysis**	26 May 2026
CAS number	33515-09-2	**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 1182.29 Da	1182.28 Da (Δ -8 ppm)	**PASS**
Purity	RP-HPLC, UV 220 nm	≥ 98.0% area	98.34%	**PASS**
Related substances	RP-HPLC	Single ≤1.0 / Total ≤2.0%	0.90 / 1.66%	**PASS**
Water content	Karl Fischer (USP <921>)	≤ 8.0%	1.5%	**PASS**
Counter-ion: acetate	Ion chromatography	Report (3.0–15.0%)	8.7%	**PASS**
Net peptide content	Amino-acid analysis	≥ 80.0%	87.9%	**PASS**
Bacterial endotoxin	LAL kinetic (USP <85>)	< 5.0 EU/mg	0.12 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 (≥ 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.

DZK.

Dr. Zhou Kai
Analyst · 26 May 2026 · Zhongxi Research Institute

DLX.

Dr. Lin Xia (QC Manager)
Approved by · 26 May 2026 · Zhongxi Research Institute

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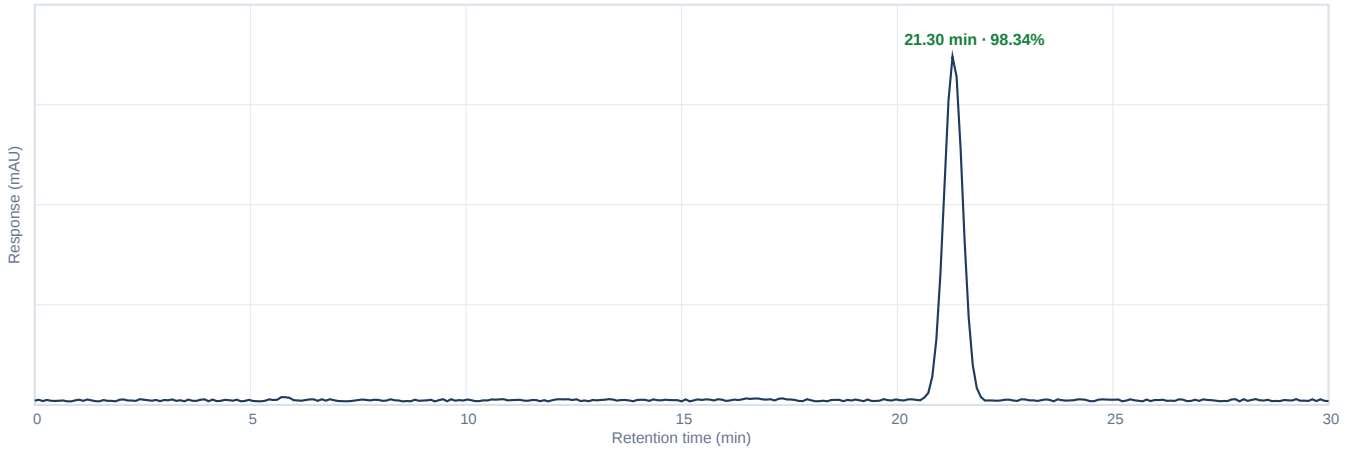
APPENDIX — ANALYTICAL RAW DATA

Gonadorelin Acetate 5mg · Lot ZX260512-737 · Cert. ZXR-COA-2026-62370

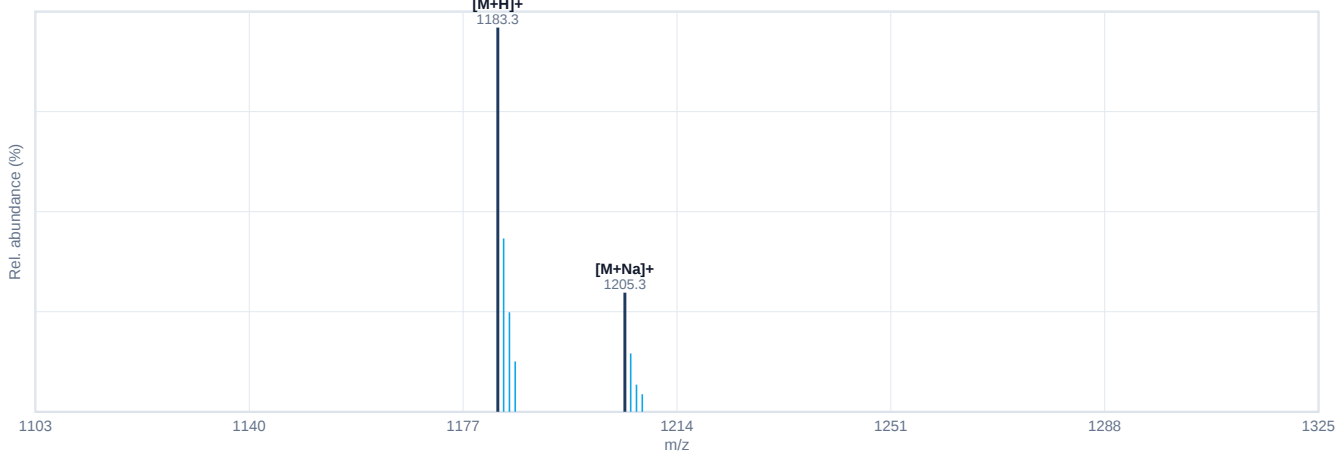
Scan to verify

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



Peak #	RT (min)	Area (µV·s)	Area %	Assignment
1	21.30	927011	98.34	Main (target)
2	5.79	7563	0.75	Impurity / related substance
3	16.66	7308	0.67	Impurity / related substance
4	17.39	2297	0.24	Impurity / related substance

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



Interpretation

Identity confirmed by ESI-MS. Observed ions [M+H]+ 1183.3, [M+Na]+ 1205.3 deconvolute to a neutral monoisotopic-average mass of 1182.28 Da (theoretical 1182.29 Da; mass error -8 ppm), consistent with Gonadorelin Acetate. 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.

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CERTIFICATE OF ANALYSIS

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PASS
QC released for dispatch

Scan to verify

Gonadorelin Acetate — 10mg

Gonadotropin-Releasing Hormone (GnRH)

1. PRODUCT IDENTIFICATION

Synonym	Gonadotropin-Releasing Hormone (GnRH)	**Label claim**	10mg
Sequence / structure	pGlu-His-Trp-Ser-Tyr-Gly-Leu-Arg-Pro-Gly-NH2	**Lot / Batch**	ZX260512-954 / B27464
Mol. formula	C55H75N17O13	**Manufacture date**	19 May 2026
Mol. weight	1182.29 g/mol	**Date of analysis**	28 May 2026
CAS number	33515-09-2	**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 1182.29 Da	1182.29 Da (Δ 0 ppm)	**PASS**
Purity	RP-HPLC, UV 220 nm	≥ 98.0% area	98.83%	**PASS**
Related substances	RP-HPLC	Single ≤1.0 / Total ≤2.0%	0.57 / 1.17%	**PASS**
Water content	Karl Fischer (USP <921>)	≤ 8.0%	2.6%	**PASS**
Counter-ion: acetate	Ion chromatography	Report (3.0–15.0%)	8.6%	**PASS**
Net peptide content	Amino-acid analysis	≥ 80.0%	86.7%	**PASS**
Bacterial endotoxin	LAL kinetic (USP <85>)	< 5.0 EU/mg	0.06 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 (≥ 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.

DZK.

Dr. Zhou Kai
Analyst · 28 May 2026 · Zhongxi Research Institute

DGT.

Dr. Guo Tao (QC Manager)
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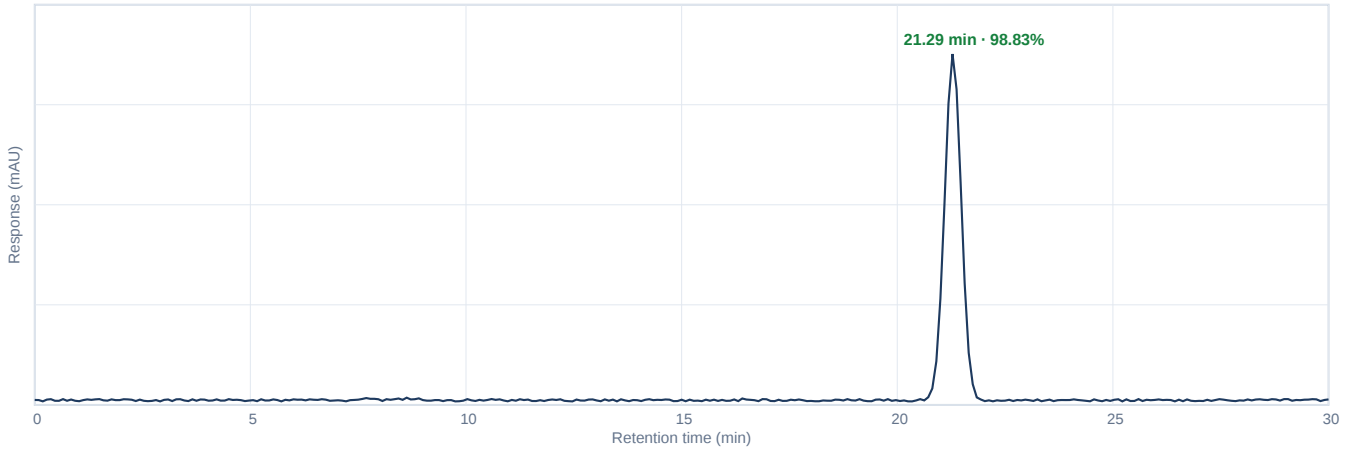
APPENDIX — ANALYTICAL RAW DATA

Gonadorelin Acetate 10mg · Lot ZX260512-954 · Cert. ZXR-COA-2026-50311

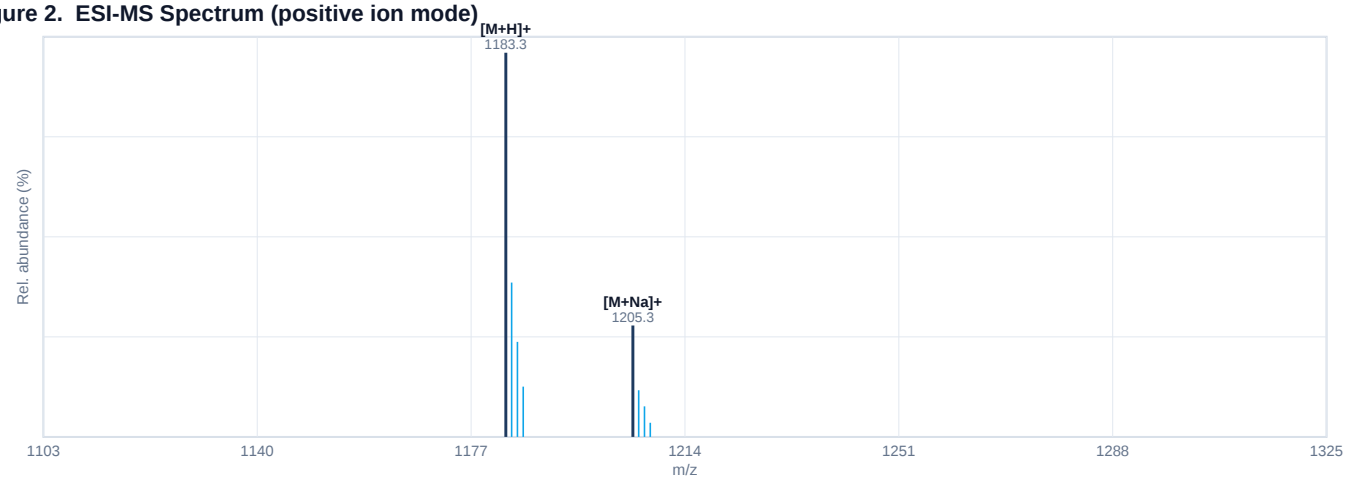
Scan to verify

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



Peak #	RT (min)	Area (µV·s)	Area %	Assignment
1	21.29	902582	98.83	Main (target)
2	8.70	5116	0.50	Impurity / related substance
3	7.76	3804	0.39	Impurity / related substance
4	16.47	2743	0.26	Impurity / related substance
5	10.65	204	0.02	Impurity / related substance

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



Interpretation

Identity confirmed by ESI-MS. Observed ions [M+H]+ 1183.3, [M+Na]+ 1205.3 deconvolute to a neutral monoisotopic-average mass of 1182.29 Da (theoretical 1182.29 Da; mass error 0 ppm), consistent with Gonadorelin Acetate. 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.

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CERTIFICATE OF ANALYSIS

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PASS
QC released for dispatch

Scan to verify

Ipamorelin — 5mg

Ipamorelin Acetate

1. PRODUCT IDENTIFICATION

Synonym	Ipamorelin Acetate	**Label claim**	5mg
Sequence / structure	Aib-His-D-2-Nal-D-Phe-Lys-NH2	**Lot / Batch**	ZX260512-711 / B89546
Mol. formula	C38H49N9O5	**Manufacture date**	20 May 2026
Mol. weight	711.85 g/mol	**Date of analysis**	26 May 2026
CAS number	170851-70-4	**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 711.85 Da	711.86 Da (Δ 14 ppm)	**PASS**
Purity	RP-HPLC, UV 220 nm	≥ 98.0% area	99.74%	**PASS**
Related substances	RP-HPLC	Single ≤1.0 / Total ≤2.0%	0.12 / 0.26%	**PASS**
Water content	Karl Fischer (USP <921>)	≤ 8.0%	2.8%	**PASS**
Counter-ion: acetate	Ion chromatography	Report (3.0–15.0%)	9.1%	**PASS**
Net peptide content	Amino-acid analysis	≥ 80.0%	86.5%	**PASS**
Bacterial endotoxin	LAL kinetic (USP <85>)	< 5.0 EU/mg	0.12 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 (≥ 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.

DSY.

Dr. Sun Yan
Analyst · 26 May 2026 · Zhongxi Research Institute

DFH.

Dr. Fang Hong (QC Manager)
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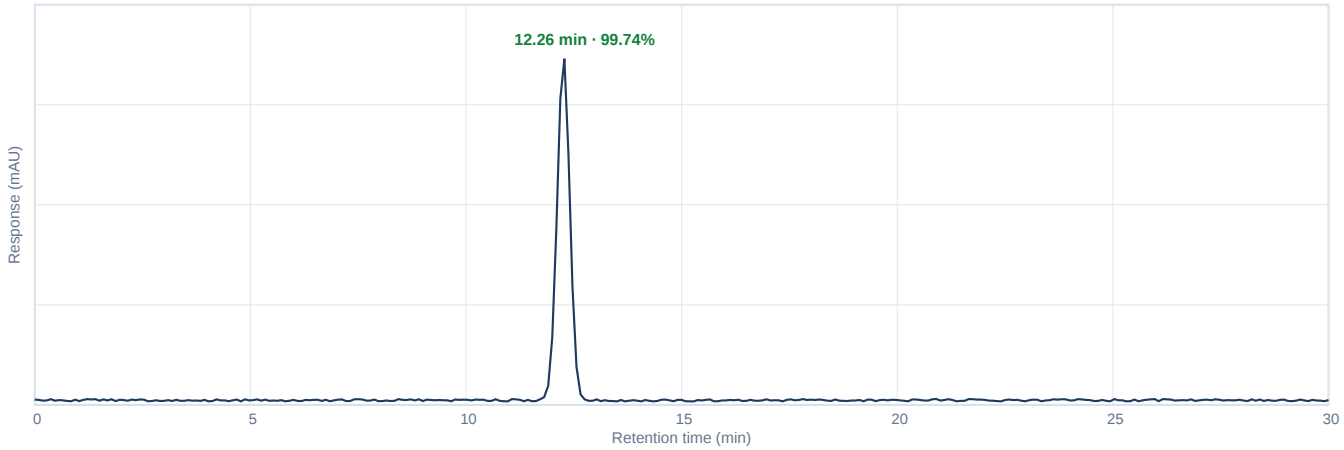
APPENDIX — ANALYTICAL RAW DATA

Ipamorelin 5mg · Lot ZX260512-711 · Cert. ZXR-COA-2026-65831

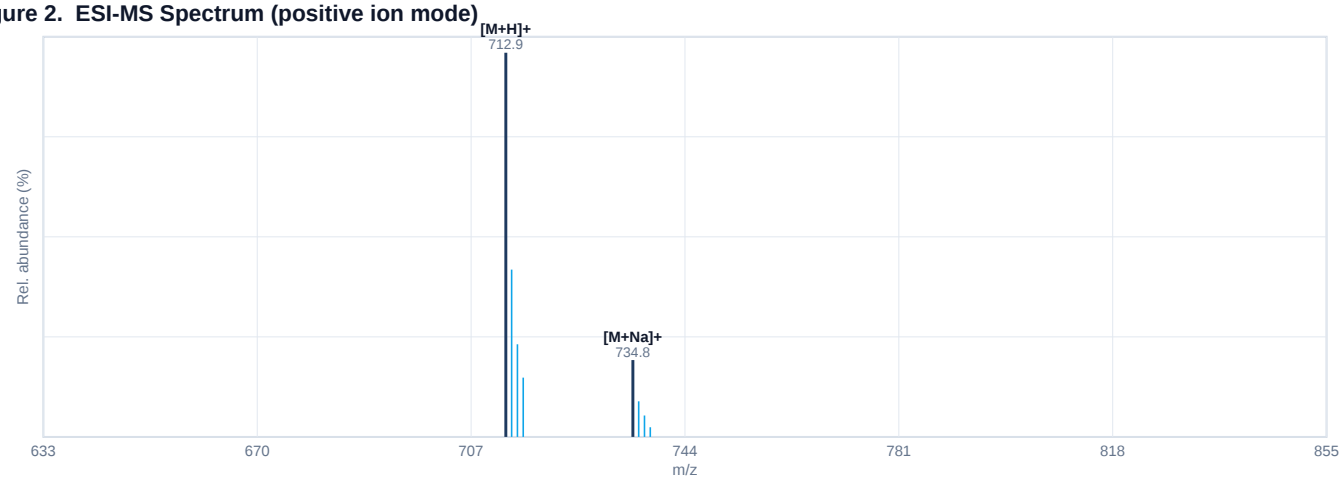
Scan to verify

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



Peak #	RT (min)	Area (µV·s)	Area %	Assignment
1	12.26	907245	99.74	Main (target)
2	21.03	759	0.08	Impurity / related substance
3	23.98	758	0.08	Impurity / related substance
4	16.54	522	0.05	Impurity / related substance
5	21.99	488	0.05	Impurity / related substance

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



Interpretation

Identity confirmed by ESI-MS. Observed ions [M+H]+ 712.9, [M+Na]+ 734.8 deconvolute to a neutral monoisotopic-average mass of 711.86 Da (theoretical 711.85 Da; mass error 14 ppm), consistent with Ipamorelin. 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.

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CERTIFICATE OF ANALYSIS

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PASS
QC released for dispatch

Scan to verify

5-Amino-1MQ — 50mg

5-Amino-1-methylquinolinium

1. PRODUCT IDENTIFICATION

Synonym	5-Amino-1-methylquinolinium	**Label claim**	50mg
Sequence / structure	—	**Lot / Batch**	ZX260512-857 / B64836
Mol. formula	C10H11IN2	**Manufacture date**	19 May 2026
Mol. weight	286.11 g/mol	**Date of analysis**	28 May 2026
CAS number	42464-96-0	**Storage**	−20 °C, dark, desiccated
Salt form	Free base / N/A		

2. ANALYTICAL TEST RESULTS

Test	Method	Specification	Result	Verdict
Appearance	Visual	Per monograph	Off-white to faint red crystalline powder	PASS
Identity	LC-MS + ^{1}H-NMR	Matches 286.11 Da & ref	286.11 Da; conforms	PASS
Assay / Purity	RP-HPLC	≥ 98.0%	98.31%	PASS
Related substances	RP-HPLC	Total ≤ 2.0%	1.69%	PASS
Water content	Karl Fischer	≤ 5.0%	3.7%	PASS
Residual solvents	GC head-space (ICH Q3C)	Conforms	Conforms	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 (≥ 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 · 28 May 2026 · Zhongxi Research Institute

DGT.

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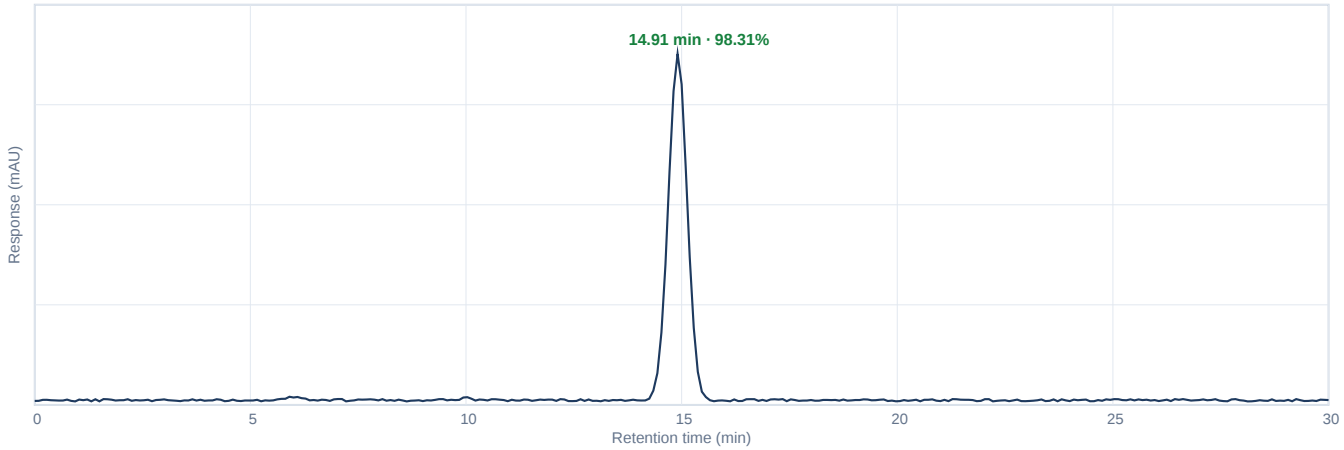
APPENDIX — ANALYTICAL RAW DATA

5-Amino-1MQ 50mg · Lot ZX260512-857 · Cert. ZXR-COA-2026-41733

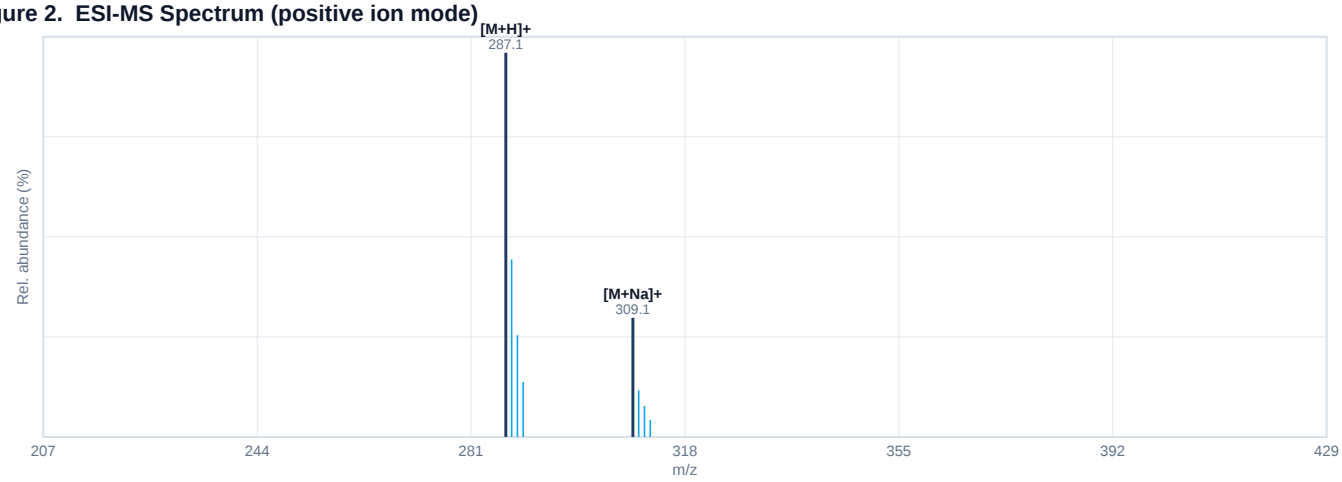
Scan to verify

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



Peak #	RT (min)	Area (µV·s)	Area %	Assignment
1	14.91	1032900	98.31	Main (target)
2	9.98	8276	0.83	Impurity / related substance
3	6.01	8718	0.80	Impurity / related substance
4	6.98	278	0.03	Impurity / related substance
5	8.09	293	0.03	Impurity / related substance

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



Interpretation

Identity confirmed by ESI-MS. Observed ions [M+H]+ 287.1, [M+Na]+ 309.1 deconvolute to a neutral monoisotopic-average mass of 286.11 Da (theoretical 286.11 Da; mass error 0 ppm), consistent with 5-Amino-1MQ. 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.

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CERTIFICATE OF ANALYSIS

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

PASS
QC released for dispatch

Scan to verify

HMG — 75IU

Human Menopausal Gonadotropin (Menotropin)

1. PRODUCT IDENTIFICATION

Synonym	Human Menopausal Gonadotropin (Menotropin)	**Label claim**	75IU
Sequence / structure	—	**Lot / Batch**	ZX260512-882 / B97262
Mol. formula	Glycoprotein complex (FSH + LH)	**Manufacture date**	19 May 2026
Mol. weight	~30,000–50,000 Da (glycoprotein)	**Date of analysis**	31 May 2026
CAS number	61489-71-2	**Storage**	−20 °C, dark, desiccated
Salt form	Lyophilised glycoprotein		

2. ANALYTICAL TEST RESULTS

Test	Method	Specification	Result	Verdict
Appearance	Visual	White lyophilized powder	White lyophilized powder	PASS
Identity	Immunoassay / SDS-PAGE	Conforms to reference	Conforms	PASS
Biological potency	In-vivo bioassay (IU)	75IU (±10%)	77 IU equiv.	PASS
Water content	Karl Fischer	≤ 3.0%	0.9%	PASS
Sterility	USP <71>	Sterile, no growth	No growth	PASS
Bacterial endotoxin	LAL (USP <85>)	< 5 EU/vial	0.16 EU/vial	PASS

CONCLUSION
All tested parameters CONFORM to the acceptance specifications. The batch is of high chromatographic purity (≥ 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.

DHR.

Dr. Huang Rui
Analyst · 31 May 2026 · Zhongxi Research Institute

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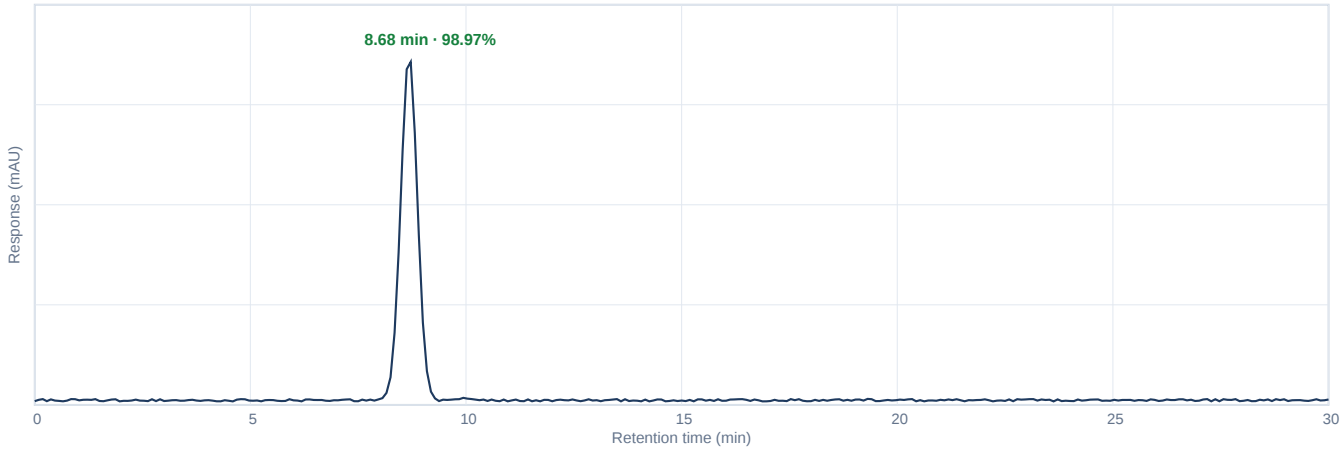
APPENDIX — ANALYTICAL RAW DATA

HMG 75IU · Lot ZX260512-882 · Cert. ZXR-COA-2026-81304

Scan to verify

Figure 1. SE-HPLC Chromatogram — monomer content (UV 280 nm)



Peak #	RT (min)	Area (µV·s)	Area %	Assignment
1	8.68	1030184	98.97	Intact monomer
2	9.92	4554	0.46	Impurity / related substance
3	12.27	2563	0.27	Impurity / related substance
4	19.13	2538	0.26	Impurity / related substance
5	13.19	427	0.04	Impurity / related substance

Figure 2. Identity confirmation (MS not applicable to this product class)

MS not applicable for this product class.

Interpretation

Identity confirmed by immunoassay and SDS-PAGE against the gonadotropin reference standard; molecular-weight MS is not the determining test for this heterogeneous glycoprotein. Potency reported in International Units (IU) by bioassay.

Methods — SE-HPLC: TSKgel G3000SWxl 7.8×300 mm; 0.1 M sodium phosphate pH 6.8 isocratic; 0.5 mL/min; 25 °C; UV 280 nm (size-based purity / monomer content — a C4/SEC phase is used because reversed-phase C18 is unsuitable for a ~38 kDa glycoprotein). Identity: immunoassay & reducing SDS-PAGE vs WHO reference. Potency: in-vivo bioassay (IU). KF: Metrohm 901. Endotoxin: LAL kinetic. Sterility: USP <71>.

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CERTIFICATE OF ANALYSIS

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

PASS
QC released for dispatch

Scan to verify

HCG — 5,000IU

Human Chorionic Gonadotropin

1. PRODUCT IDENTIFICATION

Synonym	Human Chorionic Gonadotropin	**Label claim**	5,000IU
Sequence / structure	—	**Lot / Batch**	ZX260512-300 / B29574
Mol. formula	Glycoprotein (α + β subunits)	**Manufacture date**	14 May 2026
Mol. weight	~37,900 Da (glycoprotein)	**Date of analysis**	27 May 2026
CAS number	9002-61-3	**Storage**	−20 °C, dark, desiccated
Salt form	Lyophilised glycoprotein		

2. ANALYTICAL TEST RESULTS

Test	Method	Specification	Result	Verdict
Appearance	Visual	White lyophilized powder	White lyophilized powder	**PASS**
Identity	Immunoassay / SDS-PAGE	Conforms to reference	Conforms	**PASS**
Biological potency	In-vivo bioassay (IU)	5,000IU (±10%)	5 IU equiv.	**PASS**
Water content	Karl Fischer	≤ 3.0%	4.2%	**PASS**
Sterility	USP <71>	Sterile, no growth	No growth	**PASS**
Bacterial endotoxin	LAL (USP <85>)	< 5 EU/vial	0.11 EU/vial	**PASS**

CONCLUSION
All tested parameters CONFORM to the acceptance specifications. The batch is of high chromatographic purity (≥ 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
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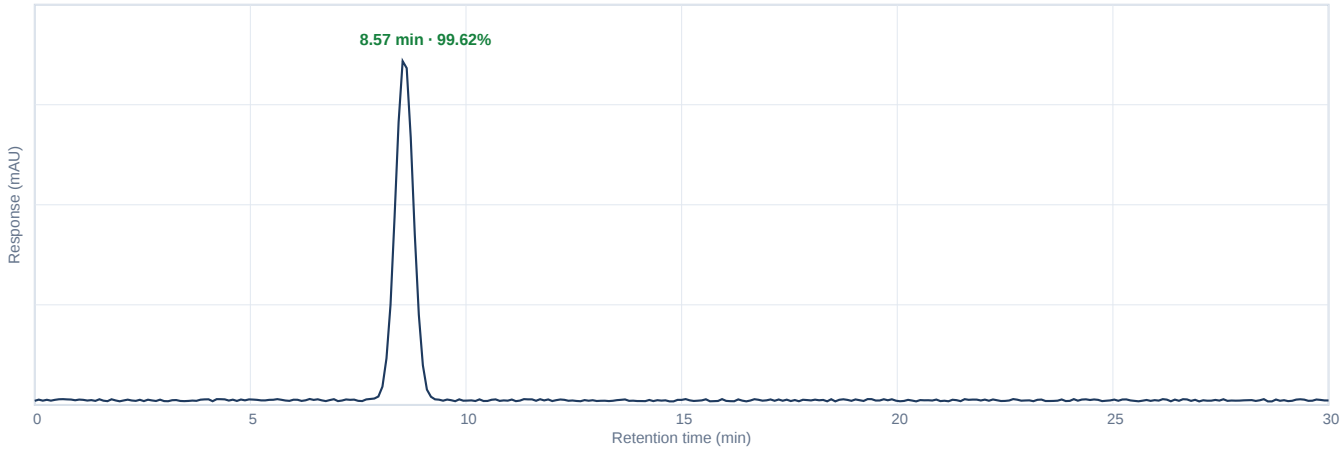
APPENDIX — ANALYTICAL RAW DATA

HCG 5,000IU · Lot ZX260512-300 · Cert. ZXR-COA-2026-10479

Scan to verify

Figure 1. SE-HPLC Chromatogram — monomer content (UV 280 nm)



Peak #	RT (min)	Area (µV·s)	Area %	Assignment
1	8.57	1086142	99.62	Intact monomer
2	25.01	1970	0.18	Impurity / related substance
3	23.01	1097	0.11	Impurity / related substance
4	6.52	888	0.09	Impurity / related substance

Figure 2. Identity confirmation (MS not applicable to this product class)

MS not applicable for this product class.

Interpretation

Identity confirmed by immunoassay and SDS-PAGE against the gonadotropin reference standard; molecular-weight MS is not the determining test for this heterogeneous glycoprotein. Potency reported in International Units (IU) by bioassay.

Methods — SE-HPLC: TSKgel G3000SWxl 7.8×300 mm; 0.1 M sodium phosphate pH 6.8 isocratic; 0.5 mL/min; 25 °C; UV 280 nm (size-based purity / monomer content — a C4/SEC phase is used because reversed-phase C18 is unsuitable for a ~38 kDa glycoprotein). Identity: immunoassay & reducing SDS-PAGE vs WHO reference. Potency: in-vivo bioassay (IU). KF: Metrohm 901. Endotoxin: LAL kinetic. Sterility: USP <71>.