



CERTIFICATE OF ANALYSIS

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

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	$\geq 98.0\%$ area	99.49%	PASS
Related substances	RP-HPLC	Single ≤ 1.0 / Total $\leq 2.0\%$	0.24 / 0.51%	PASS
Water content	Karl Fischer (USP <921>)	$\leq 8.0\%$	1.3%	PASS
Counter-ion: acetate	Ion chromatography	Report (3.0–15.0%)	9.8%	PASS
Net peptide content	Amino-acid analysis	$\geq 80.0\%$	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 ($\geq 98\%$) with an impurity profile, identity and residual/contaminant results meeting pharmaceutical-grade quality requirements. Material released. Supporting RP-HPLC chromatogram and ESI-MS spectrum are appended on page 2.

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



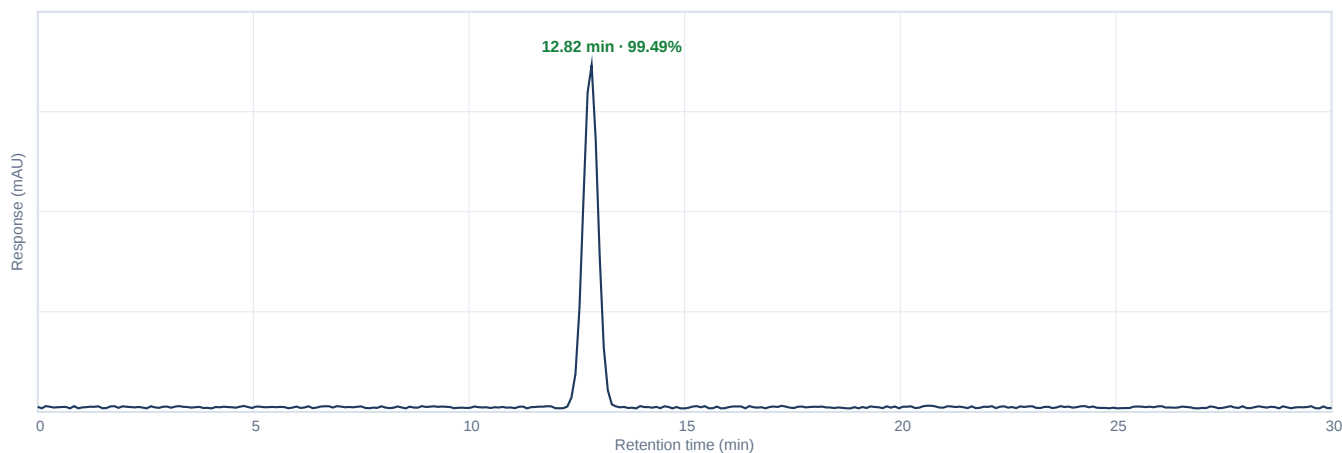
APPENDIX — ANALYTICAL RAW DATA

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



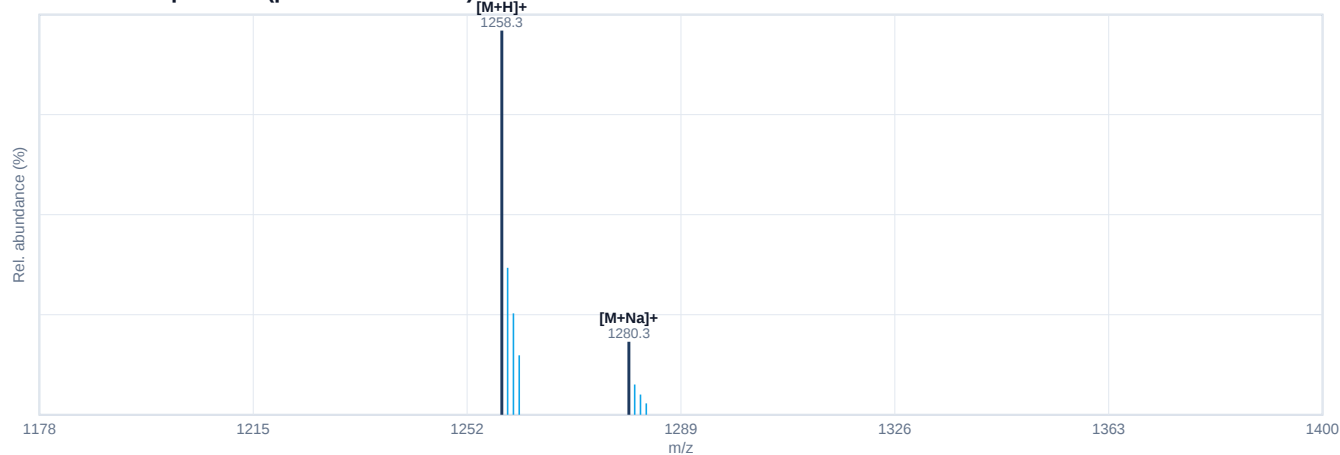
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Figure 1. RP-HPLC Chromatogram (UV 220 nm)



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.