



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 — 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	CH ₃ COOH (C ₂ H ₄ O ₂)	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 ($\geq 98\%$) 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.

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



APPENDIX — ANALYTICAL RAW DATA

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



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

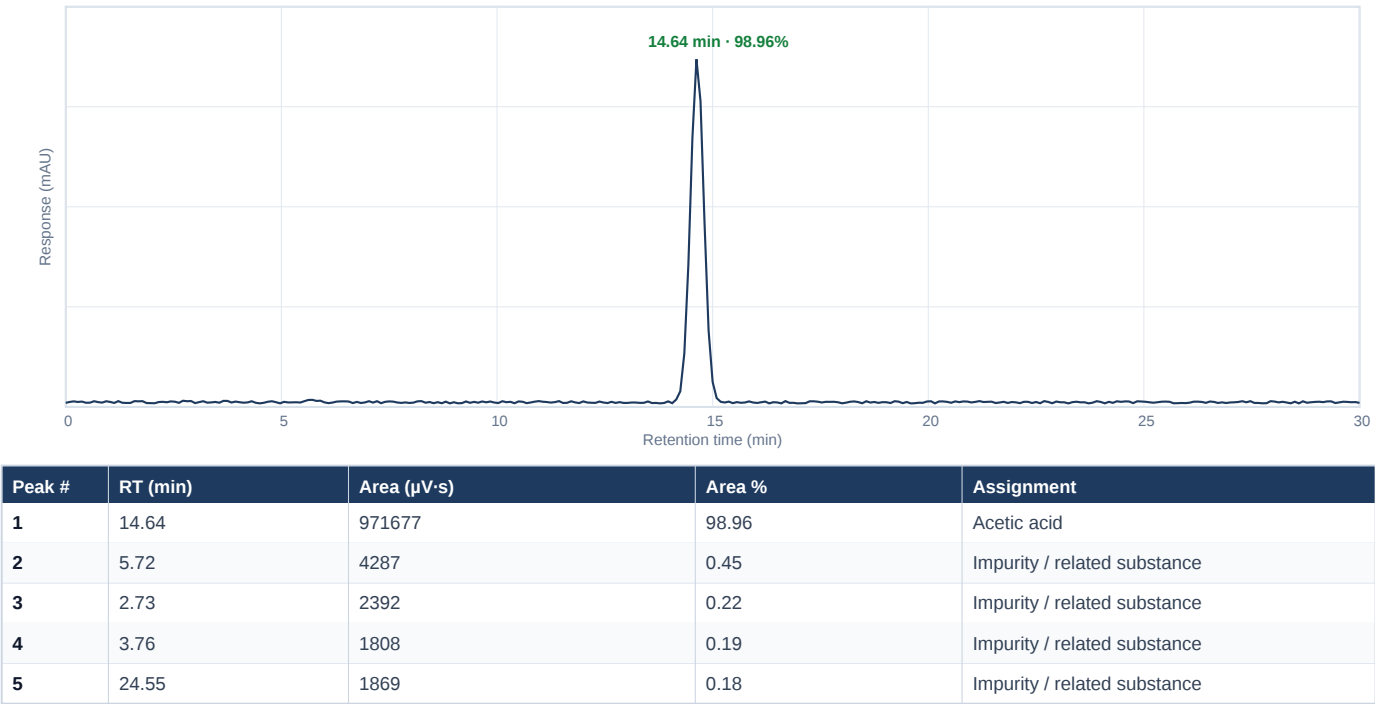


Figure 2. Identity confirmation (MS not applicable to this product class)

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.