

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing:	2026-03-31 17:05:33
Date of Next Testing:	2028-03-30 17:05:33
Product Name:	MeloScript II Reverse Transcriptase
CAS Number:	
Specifications & Purity:	EnzymoPure™, DNase, RNase free, for DNA and RNA applications, Suitable for Molecular Biology, 200 U/μL
Lot #:	ZJ26F0333684
SKU #	FP1508911-CG400KU
Version:	1
Analysis #:	032459

Parameter	Limit Value	Result
Appearance(FP1508911)	Colorless, transparent liquid	Colorless, transparent liquid
Purity(SDS-PAGE) ≥95%	Conform	Conform
Activity: 190–210 U/μl	Conform	Conform
Stability (37°C accelerated stability): Compared with the -20°C control, ΔCT < 0.3, CT CV < 3%, sensitivity detection rate > 90%	Conform	Conform
RNase Residue: No significant fluorescence change after incubating 400U RT with RNA substrate at 37°C for 0.5 h	Conform	Conform
Exonuclease Residue: DNA substrate degradation < 10% after incubating 1000U RT with DNA substrate at 37°C for 4 h	Conform	Conform
E. coli Genomic DNA Residue: < 1 copy of E. coli genomic DNA residue per 500U RT	Conform	Conform
Nickase Residual: 200 U RTase + plasmid DNA substrate incubated at 37 °C for 4 h. Agarose gel electrophoresis: Plasmid conformational change < 10%.	Conform	Conform
RNase H Activity: No detectable RNase H activity. No fluorescent signal or signal < 100 RFU.	Conform	Conform

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Parameter	Limit Value	Result
Reverse Transcription Performance: Compared to control: $\Delta CT < 0.5$, CT CV < 3%, sensitivity detection rate > 90%.	Conform	Conform
Seal Integrity Testing	Conform	Conform



Sophia Cheng
Quality Assurance