

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2026-04-01 16:35:46
 Date of Next Testing: 2028-03-31 16:35:46
 Product Name: MeloScript Reverse Transcriptase
 Lot #: ZJ26F0333719
 SKU #: FP1509103
 Version: 1
 Analysis #: 032458
 Source:
 Specifications & Purity: EnzymoPure™, DNase, RNase free, for DNA and RNA applications, Suitable for Molecular Biology, 200U/μL
 Concentration:
 Formulation: Liquid
 Reconstitution:
 Storage Conditions: Store at -20°C, Avoid repeated freezing and thawing
 Analysis: 032458

Parameter	Limit Value	Result
Appearance(FP1509103)	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
Nuclease Residue: Plasmid DNA conformation change <10% after incubating 200U RT with plasmid DNA at 37°C for 4 h	Conform	Conform

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Parameter	Limit Value	Result
RNase H Activity: No detectable activity; signal <100 RFU	Conform	Conform
Reverse Transcription Performance: Δ CT < 0.5, CT CV < 3%, detection rate > 90% (vs. control)	Conform	Conform
Seal Integrity Testing	Conform	Conform



Sophia Cheng
Quality Assurance