

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Specification Sheet

Product Name:	MeloScript Reverse Transcriptase
SKU #:	FP1509103
Version:	1
Source:	
Specifications & Purity:	EnzymoPure™, DNase, RNase free, for DNA and RNA applications, Suitable for Molecular Biology, 200U/μL
Concentration:	200U/μL
Formulation:	Liquid
Reconstitution:	
Storage Conditions:	Store at -20°C, Avoid repeated freezing and thawing

Parameter	Limit Values
Appearance(FP1509103)	Colorless, transparent liquid
Purity(SDS-PAGE) ≥95%	Conform
Activity: 190–210 U/μl	Conform
Stability (37°C accelerated stability): Compared with the -20°C control, ΔCT < 0.3, CT CV < 3%, sensitivity detection rate > 90%	Conform
RNase Residue: No significant fluorescence change after incubating 400U RT with RNA substrate at 37°C for 0.5 h	Conform
Exonuclease Residue: DNA substrate degradation <10% after incubating 1000U RT with DNA substrate at 37°C for 4 h	Conform
E. coli Genomic DNA Residue: < 1 copy of E. coli genomic DNA residue per 500U RT	Conform
Nuclease Residue: Plasmid DNA conformation change <10% after incubating 200U RT with plasmid DNA at 37°C for 4 h	Conform
RNase H Activity: No detectable activity; signal <100 RFU	Conform
Reverse Transcription Performance: ΔCT < 0.5, CT CV < 3%, detection rate > 90% (vs. control)	Conform

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Parameter	Limit Values
Seal Integrity Testing	Conform