

# Certificate of Analysis

## M-MLV Reverse Transcriptase (200 U/μL)

Product No. 28025013, 10338842

Lot No. 2676859

Date of Manufacture 19-Jun-2023

Expiration Date 17-Aug-2025

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### Refractive Index

Specification: 1.40-1.41

Result: Meets specification.

### Unit Assay

Specification:  $\geq 200$  U/μl

Result: Meets specification.

### Lowry Protein Concentration Assay

Specification: Specific activity must be  $\geq 280,000$  U/mg.

Result: Meets specification.

### Endonuclease Assay

Specification:  $\leq 20\%$  conversion of  $\Phi$  X174RF DNA to Form II and no conversion to Form III when 1,000 actual units of enzyme are incubated for 5 hours at +37° C

Result: Meets specification.

### Exonuclease Assay

Specification:  $\leq 0.05\%$  of the termini released per unit of enzyme when incubated for 1 hour at 37° C.

Result: Meets specification.

## **RNase Assay**

Specification: No downward smearing below the 0.5 Kb band as compared to control lanes when 1,000 units of enzyme are incubated with 5 µg of RNA ladder for 30 minutes at +37° C

Result: Meets specification.

## **SDS Gel Electrophoresis**

Specification: At 2, 5, and 10 µg of protein,  $\geq$  95% of protein is homogeneous at approximately 78,000 daltons

Result: Meets specification.

## **RNA Functional Assay**

Specification: 200 units of enzyme incubated with 2.5 µg of 8.0 Kb RNA for 1 hour at 37° C must synthesize at least 0.2 µg of cDNA

Result: Meets specification.

Specification:  $\geq$  10% of the cDNA must be >6Kb and  $\geq$  50% must be >3Kb when analyzed by alkaline agarose gel electrophoresis

Result: Meets specification.

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