

Certificate of Analysis

M-MLV Reverse Transcriptase (200 U/ μ L)

Product No. 28025021, 10247352

Lot No. 2985244

Date of Manufacture 09-Aug-2024

Expiration Date 08-Oct-2026

Refractive Index

Specification: 1.40-1.41.

Result: Meets specification.

Unit Assay

Specification: \geq 200 U/ μ l.

Result: Meets specification.

Specific Activity

Specification: Must be \geq 280,000 U/mg.

Result: Meets specification.

Endonuclease Assay

Specification: \leq 20% conversion of Φ X174 RF 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 0.5-10 Kb 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 >6 Kb and $\geq 50\%$ must be >3 Kb when analyzed by alkaline agarose gel electrophoresis.

Result: Meets specification.

For Research Use Only. Not for use in diagnostic procedures.

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