

Certificate of Analysis

SuperScript™ II Reverse Transcriptase

Product No. 18064022, 10635003

Lot No. 2929631

Date of Manufacture 14-Jun-2024

Expiration Date 11-Dec-2025

Refractive Index

Specification: 1.40- 1.41

Result: Meets specification

Unit Assay

Specification: 180-270 U/μl

Result: Meets specification

Specific Activity

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

Result: Meets specification

Endonuclease Assay

Specification: \leq 20% conversion of 1 μg of ΦX174RF DNA to Form II and no conversion to Form III when 1,000 units of enzyme are incubated for 5 hours at 37° C.

Result: Meets specification

Exonuclease Assay

Specification: With 1 pmole of relevant substrate and incubated for 1 hour at 37°C, enzyme demonstrates an absence of exonuclease activity

Result: Meets specification

RNase Assay

Specification: When 1,000 units of enzyme are incubated with 5 µg of RNA ladder at 37° C for 30 min., there should be no downward smearing below the 0.5 Kb band as compared to the control.

Result: Meets specification

Purity

Specification: When analyzed by SDS-PAGE, ≥95% of the protein at 10 µg must be homogeneous at approximately 78,000 daltons.

Result: Meets specification

RNA Functional Assay

Specification: 200 units of enzyme incubated with 1.5 µg of 8.0 kb RNA for 1 hour at 45°C must synthesize ≥65% cDNA. ≥45% of the cDNA must be ≥6 kb when analyzed by alkaline agarose gel electrophoresis

Result: Meets specification

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