

# Certificate of Analysis

## SuperScript™ II Reverse Transcriptase

Product No. 18064022, 10635003

Lot No. 2879518

Date of Manufacture 13-Mar-2024

Expiration Date 09-Sep-2025

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### 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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