ThermoFisher SCIENTIFIC

Certificate of Analysis

RNaseOUT™ Recombinant Ribonuclease Inhibitor

Product No.	10777019, 10154652, 15704032
Lot No.	2863150
Date of Manufacture	07-Jun-2024
Expiration Date	10-May-2027

Warning:

This product is distributed for laboratory research use only. CAUTION: Not for diagnostic use. The safety and efficacy of this product in diagnostic or other clinical uses has not been established.

Refractive Index

Specification: Must be between 1.400 and 1.410

Result: Meets specification.

RT-PCR

Specification: Analysis of PCR-amplified product must exhibit a 523 bp band clearly visible in the lanes representing 10^5 and 10^4 molecules of input cDNA.

Result: Meets specification.

Specification: The band intensities obtained with SUPERSCRIPT™ II and RNaseOUT must be comparable to that obtained with SUPERSCRIPT™ II alone.

Result: Meets specification.

Specification: Negative control reactions must show no amplification products to be present.

Result: Meets specification.

Endonuclease

Specification: On 1 µg of ΦX174 RF DNA, $\leq$ 5% conversion from Form I to Form II and no conversion to Form

III must be obtained after a 1-hour incubation with 50, 100, and 200 units of RNase Inhibitor, as compared to a negative control.

Result: Meets specification.

Purity

Specification: ≥90% of the total protein must be at a molecular weight of 52,000 daltons.

Result: Meets specification.

Specific Activity

Specification: Must be ≥ 80,000 U/mg.

Result: Meets specification.

Unit

One unit of RNaseOUT™ Ribonuclease Inhibitor is defined as that amount which will inhibit 5 ng of Rnase A by 50%. This activity is determined by measuring the inhibition of hydrolysis of cytidine 2',3'-cyclic monophosphate by RNase A.

Result: Meets specification.

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