Catalog Number       300151
Product Name         RNase Block Ribonuclease Inhibitor
Expiration Date      2021-05-30
Quantity             4,000 U
Certified By         Dana Faver
Quality Controlled By Matt Huffman
Shipping Conditions  Shipped on dry ice.
Storage Conditions   Store at -20°C upon receipt.

Concentration
40 U/µl

Unit Activity
Forty units is described as the amount of RNase Block Ribonuclease Inhibitor required to inhibit the activity of 0.5 ng of ribonuclease A by 90% in 1 hour.

One microliter of RNase Block Ribonuclease Inhibitor will substitute for 1 µl of RNase Block II.

Test Conditions
RNase Block Ribonuclease Inhibitor is used in transcription assays to monitor its effectiveness in blocking ribonuclease activity and maintaining the resulting integrity of the transcribed RNA. A series of iterations of ribonuclease is added to the transcription reactions to ensure that the RNase Block Ribonuclease Inhibitor can maintain the integrity of the RNA under stringent conditions.

Contamination Test Conditions
RNase Block Ribonuclease Inhibitor has been determined to be ≥90% pure by sodium deoxycholate-polyacrylamide gel electrophoresis (SDS-PAGE) with Coomassie blue staining. In addition, RNase Block Ribonuclease Inhibitor has been tested for the absence of detectable endonucleases, exonucleases, and RNases.

Storage Buffer
RNase Block Ribonuclease Inhibitor is supplied in 20 mM HEPES-KOH (pH 7.6), 50 mM KCl, 8 mM dithiothreitol (DTT) and 50% (v/v) glycerol.

Limited Product Warranty
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