$RNaseOff^{TM}$ RNase Inhibitor

Catalog Number:

R666114 (3000 U) R666114 (20,000 U)

Storage condition: 2-8°C storage, room temperature transportation.

Products content

Component	3000 U	20000 U
RNaseOff™ RNase Inhibitor	3000 U	20000 U
RNaseOff™ RNase Inhibitor Storage Buffer	100 µL	600 µL

Products Introduction

RNaseOff[™] RNase Inhibitor is a lyophilized form of recombinantly expressed RNase inhibitor that specifically binds to RNase in a non-covalent complex to inactivate RNase A, RNase B, and RNase C without inhibiting RNase H. RNaseOff[™] RNase Inhibitor is a lyophilized form of recombinantly expressed RNase inhibitor, S1 nuclease, SP6, T7 or T3 RNA polymerase, AMV or M-MLV reverse transcriptase, Taq DNA polymerase, RNase T1 and other enzymes without affecting the subsequent reverse transcription and translation processes. Widely used in RNA research, such as RT-PCR, cDNA synthesis, mRNA protection, in vitro transcription and in vitro translation, in situ hybridization and mRNA localization.

Active Definition

One unit of activity (U) refers to the amount of enzyme used to inhibit 50% 5 ng of the glycoside 2',3'-cyclic phosphate in RNase A from undergoing hydrolysis.

fineness

1.300 U of RNaseOffTM RNase Inhibitor and 1 μ g of λ DNA-Hind III catabolite were reacted for 1 hour at 37°C without changes in the electrophoretic bands of DNA.

2.300 U of RNaseOff[™] RNase Inhibitor and 1 µg of superhelical pBR322 DNA were reacted for 1 hour at 37°C without changes in the electrophoretic bands of the DNA.

3.100 U of RNaseOffTM RNase Inhibitor and 1 μ g of 16S and 23S rRNA were reacted at 37 $^{\circ}$ C for 1 hour, and the electrophoretic bands of RNA did not change.

main application

cDNA合成	体外翻译	体外转录	RNA 扩增
RNA提取纯化利	旧储存		

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procedure

1. Add the specified amount of RNaseOff[™] RNase Inhibitor Storage Buffer to the RNaseOff[™]

RNase Inhibitor Iyophilized powder to dissolve it, and the concentration of RNaseOff[™] RNase Inhibitor after dissolution is 40U/µL.

Component	/	/
RNaseOff™ RNase	3000 U	20000 U
Inhibitor		
RNaseOff™ RNase	80 µL	540 µL
Inhibitor Storage Buffer		-

2. A final concentration of 1 U/ μ L is recommended.

3. The prepared RNaseOff[™] RNase Inhibitor can be stored at 4°C for one month, avoiding repeated freezing and thawing to avoid affecting its activity, and can be stored at -20°C and below for 2 years after reconstitution.

Bring your own instruments

Thermostatic mixer.

Pre-experiment Preparation and Important Notes

1. Read these instructions carefully before experimenting.

2. If Proteinase K is to be stored for a long period of time, please keep it at -20 $^\circ\!\mathrm{C}.$

3. Check Buffer RLC for crystallization or precipitation prior to use, and if crystallization or precipitation occurs, redissolve Buffer RLC in a 56°C water bath.

4. Pre-treatment of tissue samples: Take 20 mg of tissue samples into 1.5 mL centrifuge tubes (self-provided), add 500 μ L of Buffer RLC, and after the tissue homogenizer breaks up, centrifuge the samples for 1 minute at 12,000 rpm (~13,400×g), and take 200 μ L of supernatant as samples.

procedure

1. Take a 1.5 mL centrifuge tube (provided), add 500 μ L of Buffer RLC, 200 μ L of sample, 20 μ L of Proteinase K, vortex for 5 s, and then place it in a thermostatic mixer at 1200 rpm for 10 min at room temperature. Note: For wet swab samples, 200 μ L of sample was taken after sufficiently shaking and mixing. Note: For wet swabs, 200 μ L was taken from the sample after it was soaked in 400 μ L of saline, shaken and mixed thoroughly for 5 minutes, and then centrifuged at 12,000 rpm for 1 minute, and 200 μ L was taken for extraction.

2. Instantly remove the centrifuge tube and add the solution from step 1 to the Spin Columns DM in the collection tube. centrifuge at 12,000 rpm (\sim 13,400 x g) for 1 minute, pour off the waste liquid from the collection tube, and return the column to the collection tube.

3. Add 500 μ L of Buffer PGWT to the adsorbent column, centrifuge at 12,000 rpm for 1 minute, pour off the waste liquid from the collection tube, and return the column to the collection tube.

4. Add 500 μ L of Buffer GWT2 to the adsorbent column, centrifuge at 12,000 rpm for 1 minute, pour off the waste liquid from the collection tube, and return the column to the collection tube.

5. Centrifuge at 12,000 rpm for 2 minutes and pour off the waste liquid in the collection tube. Place the adsorption column at room temperature for 2 minutes and allow to dry.

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6. Place the column in a new collection tube (RNase-Free Centrifuge Tube), add 40-100 μ L of RNase-Free Water to the center of the column membrane, let it stand at room temperature for 2 minutes, and then centrifuge at 12,000 rpm for 1 minute to collect the nucleic acid solution. Store at -80 °C for a long time.