Product Information

DNA Removal Reagent Kit

C/No. K.RGT-9103-250U
Packaging 250 U
Storage - 20 °C

Apical Scientific Sdn Bhd
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Description
DNA removal reagents allows the removal of DNA contaminations during RNA extraction. DNase I is responsible for DNA digestion and subsequently remove using DNase Removal Solution.

Source
DNase I is purified from bovine pancreas.

Applications
- RNA extraction
- cDNA synthesis

Components
- DNase I (1 U/µL)
- DNase Buffer with $MgCl_2$
- DNase Removal Solution
- Nuclease-free Water

Quality Control
Functionality Test
One unit of DNase I able to degrade 1 µg of pUC19 plasmid in total reaction volume of 20 µL at 37 °C for 10 minutes.

Treated RNA is tested with RT-qPCR.

RNase Activity
RNase contaminants not detected. In DNase I and DNase Removal Reagent.

Protocol

DNase Treatment

1. According to different amount of total RNA, prepare the DNase treatment reaction according to **Table 1** in nuclease-free 1.5 mL tubes.

Table 1: DNase Treatment for different amount of total RNA.

Component	Amount A	Amount B	Amount C
RNA sample	Up to 8.5 µL (5 pg – 2 µg)	Up to 42.5 µL (25 pg – 10 µg)	Up to 85 µL (50 pg – 20 µg)
10X DNase Buffer with $MgCl_2$	1 µL	5 µL	10 µL
DNase I (1 U/µL)	0.5 µL	2.5 µL	5 µL
Nuclease-free water	Adjust to reach the final volume	Adjust to reach the final volume	Adjust to reach the final volume
Total Final Volume	10 µL	50 µL	100 µL

2. Incubate the reaction at 37 °C for 30 minutes.

DNase Removal

3. For each µL of **DNase I** used in the DNase treatment reaction, add 2 µL of **DNase Removal Solution**.
   Tips: Prior using the DNase Removal Solution, vortex the solution until it is completely suspended.

4. Incubate the reaction at room temperature for 2 minutes. Invert 2 to 3 times gently to mix.

5. Centrifuge at 3,500 rpm for 1 minute to pellet the DNase Removal Solution.

6. Transfer the supernatant (which is DNase-free total RNA) into a new nuclease-free 1.5 mL tube.
   Tips: Do not disturb the pelleted DNase Removal Solution.