

Product Information

DNA Removal Reagent Kit

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

Apical Scientific Sdn Bhd
No. 17, Jalan BS 7/1C,
Taman Perindustrian Bukit
Serdang, 43300
Seri Kembangan, Selangor



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Description

DNA Removal Reagent kit provides efficient and safe removal of genomic DNA contamination from RNA sample before downstream applications like RT-PCR.

Applications

- Elimination of DNA

Components

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

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Quality Control

Assay:
DNase/ RNase Activity

Specification:
None detected

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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.																								
	<table><tr><th>Component</th><th>Amount A</th><th>Amount B</th><th>Amount C</th></tr><tr><td>RNA sample</td><td>Up to 8.5 μL (5 pg – 2 μg)</td><td>Up to 42.5 μL (25 pg – 10 μg)</td><td>Up to 85 μL (50 pg – 20 μg)</td></tr><tr><td>10X DNase Buffer with MgCl₂</td><td>1 μL</td><td>5 μL</td><td>10 μL</td></tr><tr><td>DNase I (1 U/μL)</td><td>0.5 μL</td><td>2.5 μL</td><td>5 μL</td></tr><tr><td>Nuclease-free water</td><td>Adjust to reach the final volume</td><td>Adjust to reach the final volume</td><td>Adjust to reach the final volume</td></tr><tr><td>Total Final Volume</td><td>10 μL</td><td>50 μL</td><td>100 μL</td></tr></table>	Component	Amount A	Amount B	Amount C	RNA sample	Up to 8.5 μ L (5 pg – 2 μ g)	Up to 42.5 μ L (25 pg – 10 μ g)	Up to 85 μ L (50 pg – 20 μ g)	10X DNase Buffer with MgCl ₂	1 μ L	5 μ L	10 μ L	DNase I (1 U/ μ L)	0.5 μ L	2.5 μ L	5 μ L	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 μ L	50 μ L	100 μ L
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Total Final Volume	10 μ L	50 μ L	100 μ L																						
2. Incubate the reaction at 37 °C for 30 minutes.																									
DNase Removal	3. For each μ L of DNase I used in the DNase treatment reaction, add 2 μ L of DNase Removal Solution . <i>Tips: Prior using the DNase Removal Solution, vortex the solution until it is completely suspended.</i>																								
	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. <i>Tips: Do not disturb the pelleted DNase Removal Solution.</i>																								