Tinzyme Co., Limited

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Quick RT MasterMix

Product Number: PCM19

Shipping and Storage

Store at -20°C.

Components

Component	PCM19 20rxn	PCM19 200rxn
5×Quick RT MasterMix	40μl	400μl
RNase-Free Water	0.5 ml	2×1ml

Description

This product is a kit for quick reverse transcription. 5×Quick RT MasterMix contains all the components needed for first strand cDNA synthesis. The efficiency and yield of cDNA firststrand synthesis are higher, and the first strand of cDNA can be synthesized using pg total RNA or mRNA. The reaction can be completed in 15 minutes. This kit is suitable for the high throughout synthesis of first-strand cDNA and subsequent RT-PCR, RT-qPCR, and construction of full-length cDNA libraries.

Features

1. Ready and easy to use: The reaction will be initiate by adding water and RNA template to the mastermix.
2. Rapid reverse transcription: It takes only 15 minutes to obtain the first strand of cDNA.
3. High sensitivity: pg of total RNA or mRNA can be used as template.
4. High efficiency of reverse transcription: Above 90% RNA will be reverse transcripted.

Note

1. RNase contamination should be avoided during operation to prevent RNA degradation or cross-contamination in experiments. We suggest that the RNA experiments should be performed in a specialized area with specialized equipment and consumables. The operator should wear a mask and disposable gloves and change gloves frequently.
2. The reaction should be set up on ice to prevent RNA degradation. The enzymes should be returned to -20°C as soon as possible after use to avoid repeated freezing and thawing.
3. For RNA templates with complex secondary structures, it is recommended to incubate the template RNA for 5 minutes at 65°C first, then place it on ice immediately, and centrifuge briefly for further processing.

Protocol

Thaw the template RNA on ice; the kit components should be immediately placed on ice after thawing at room temperature. Each solution should be vortexed to mix, and centrifuge briefly prior to use.

Reverse transcription reaction:

1. Set up the reaction on ice according the following table.

Reagent	10μL Reaction System	Final Concentration
RNA Template	Xμl	1pg ~ 0.5μg[1)]
5×Quick RT MasterMix[2)]	2μl	1×
RNase-Free Water	up to 10μl	

Note: 1)If the total RNA is greater than 1μg, scale up the reaction system.

2)5×Quick RT MasterMix contains Oligo(dT)、Random primer、RNase Inhibitor、dNTP Mixture、EQ-RT Buffer etc.

2. Vortex to mix well; Briefly centrifuge to collect all the solution to the bottom of the tube.

3. Incubate at 37°C for 15 minutes then incubate at 85°C for 5 minutes. Note: a. For downstream regular PCR, incubate at 37°C for 30-50 minutes. b. For templates with complex secondary structure, or high GC content, increase the temperature for reverse transcription to 50°C to increase the reverse transcription efficiency.
4. After the reaction is done, briefly centrifuge, then put on ice. For long time storage, please put it in -20°C.

Note: for real-time PCR reaction, the volume of reverse transcription product should NOT exceed the 1/10 volume of the total PCR reaction.