

EasyQuick RT MasterMix

Item No. E665905 (200 rxn)

Storage condition: -20°C

Product content

individual parts making up a compound	E665905 200 rxn
5×EasyQuick RT MasterMix	400 μl
RNase-Free Water	2 x 1 ml

Product Introduction

This product is a rapid reverse transcription reagent mix, 5×EasyQuick RT MasterMix contains EasyQuick RT Reverse Enzyme, RNase Inhibitor, Random 6 mers, Oligo dT Primer, dNTP, EQ-RT Buffer, etc. All the reagents required for reverse transcription from RNA template to cDNA first strand. The product has a high reverse transcription efficiency. This product has high reverse transcription efficiency and can perform good reverse transcription reaction on a small amount of RNA template, and the first strand synthesis of cDNA from fluorescent quantitative template can be completed in 15 minutes. This kit is very convenient and quick to operate, only need to add RNA template and water to reverse transcription reaction, especially suitable for high-throughput detection.

Product Features

1. Simple: Ready-to-use Reverse Transcription Mix, only need to add RNA template and water, then the reaction can be carried out.
2. Fast: 15 minutes to complete cDNA first strand synthesis.
3. High reverse transcription efficiency: reverse transcription efficiency is higher than 90%.
4. High sensitivity: high quality cDNA can also be obtained from pg-grade templates.
5. Reading through complex templates: high GC content and complex secondary structure templates.

Matters needing attention

1. During operation, RNase contamination should be avoided to prevent RNA degradation or cross-contamination in the experiment. It is recommended that operators wear masks and disposable gloves and change gloves frequently, and use specialized instruments and consumables.
2. Prepare the reverse transcription system on ice to prevent RNA degradation. Store the MasterMix kit at -20°C as soon as possible after use and avoid repeated freezing and thawing.
3. $10\ \mu\text{l}$ of the reaction system will maximize the use of $1\ \mu\text{g}$ of total RNA. If the amount of template RNA is greater than $1\ \mu\text{g}$, please scale up the reaction system proportionally.
4. For RNA templates with complex secondary structures, it is recommended to incubate the template RNA at 65°C for 5 min immediately on ice prior to the procedure and centrifuge briefly before proceeding to the next step.

Operation steps

1. Thaw template RNA on ice; place kit components on ice immediately after thawing at room temperature and mix each solution by vortexing and centrifuging briefly before use.
2. Prepare the reaction system according to the table below (prepare the reaction solution on ice), mix by vortexing and shaking, and centrifuge briefly to collect the solution on the wall of the tube to the bottom.

reagents	$10\ \mu\text{l}$ reaction system	final concentration
RNA Template	$X\ \mu\text{l}$	$1\ \text{pg}$ to $0.5\ \mu\text{g}^{1)}$
5 x EasyQuick RT MasterMix ²⁾	$2\ \mu\text{l}$	$1\times$
RNase-Free Water	up to $10\ \mu\text{l}$	/

Attention:

- 1) If the amount of total RNA is greater than $1\ \mu\text{g}$, scale up the reaction system proportionally.
- (2) $5\times$ EasyQuick RT MasterMix contains Oligo(dT), Random primer, RNase Inhibitor, dNTP Mixture, EQ-RT Buffer and so on.
3. Incubate at 37°C for 15 minutes.
4. Incubate at 85°C for 5 seconds to inactivate the reverse transcriptase.
5. Centrifuge briefly and place on ice for subsequent experiments, or at -20°C if prolonged storage is required.