艾科瑞生物
Accurate Biology

Instruction for Use

Evo M-MLV RT Premix for qPCR

AG11706
Version.V1E1

Research Use Only
Not For Diagnosis Procedures

1. Description

This product is a specialized reverse transcription premix for Real-Time RT-PCR. It utilizes Evo M-MLV reverse transcriptase, which features strong extension capability, enabling efficient cDNA synthesis in a short time for subsequent quantitative PCR analysis.

The premix contains all reagents necessary for reverse transcription, requiring only the addition of RNA templates and water to initiate the reaction. It is user-friendly, minimizing reagent loss and experimental errors. The synthesized cDNA is compatible with both intercalation-based and probe-based qPCR analyses.

2. Kit Information

Kit Name	Cat. No	Specification
Evo M-MLV RT Premix for qPCR	AG 11706	200 rxns / 10 μl

3. Transportation and Storage

Storage	Store at −20°C
Transportation	Transport at −20°C Dry Ice or Blue Ice Condition

4. Kit Components

Kit Components	Volume
5X *Evo M-MLV* RT Master Mix*1	400 μl
RNase Free Water	1 ml x 2 Pcs

*1: Contains Evo M-MLV RTase, RNase Inhibitor, dNTPs, Oligo dT (18T) Primer, Random 6-mers Primer, and reaction buffer.

5. Precautions

1) Before using the 5x Evo M-MLV RT Master Mix, centrifuge to collect all the solution at the bottom of the tube to minimize loss.
2) Due to the high viscosity of this product, mix gently by pipetting up and down slowly.
3) Prepare the reaction mixture on ice.

6. Protocol

Prepare the RT mix as below

Components	Reaction System 1
5X *Evo M-MLV* RT Master Mix	2 μl
Total RNA *	-
RNase free water	Up to 10 μl

*The amount of RNA can be adjusted as needed. In a 10 μl reverse transcription system:

For SYBR Green qPCR, use up to 500 ng of Total RNA.

For probe-based methods, use up to 1 μg of Total RNA.

Reaction Program:

Temperature	Time
37°C	15 min
85°C	5 sec
4°C	-

Quantitative PCR Reaction Analysis

The reaction mixture obtained above can be directly used for subsequent quantitative PCR. Ensure that the added volume does not exceed 1/10 (V/V) of the qPCR reaction volume.

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