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Deoxy⁺

Fast One-Step qRT-PCR kit (For Probe)

Deoxy⁺ Fast One-Step qRT-PCR Kit (For Probe)

Concentration: 2×

Storage: -20 °C

Description

TaqMan detection system uses a designed fluorogenic probe to detect target PCR products during real-time PCR cycles. Fluorescence is detected when the fluorophore on the probe is separated from the quencher during the PCR extension cycle. Deoxy⁺ Fast One-Step qRT-PCR kit completes reverse transcription and TaqMan Real-Time PCR in a single tube. The kit contains Yeastern's Deoxy⁺ HiSpec RT, RealStart DNA polymerase and all the components necessary for performing TaqMan Real-Time PCR from RNA template with high specificity and high sensitivity.

Contents

2× Fast One-Step qRT-PCR Premix containing:

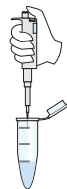
- Fast Hotstart Taq DNA polymerase
- Reverse transcriptase
- dATP, dCTP, dGTP, dTTP mix
- 7.5 mM MgCl₂
- Optimized reaction buffer

Procedure

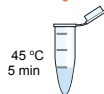
A. Preparing the reaction mixture on ice

Component	Volume	Final conc.
2× Fast One-Step qRT-PCR premix	12.5 µl	1×
Forward primers (5-10 µM)	1.5 µl	0.3-0.6 µM
Reverse primers (5-10 µM)	1.5 µl	0.3-0.6 µM
Probe (10 µM)	0.5-1 µl	0.2-0.4 µM
Template RNA	≤ 5 µl	1pg-100 ng
ddH ₂ O	variable	

Total volume 25 µl



B. Mix by pipetting

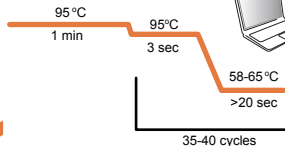


C. Reverse Transcription



D. Real-Time PCR

The two-step program is suggested for < 300 bp PCR products.



E. Analysis

Fast One-Step qRT-PCR Kit Performance Test

High sensitivity of amplification by Fast One-Step qRT-PCR is confirmed by using 10 copies of viral RNA as the template.