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Ver. L0307

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# Deoxy<sup>+</sup>

## Real-Time SYBR Green RT-PCR Kit

**Cat. No.**  
FYT504-50P  
FYT504-100P

# Deoxy<sup>+</sup> Real-Time SYBR Green RT-PCR Kit

Concentration: 2×

Storage: - 20 °C

## Description

Deoxy<sup>+</sup> Real-Time SYBR Green RT-PCR system provides users with a rapid and simple way to quantify the expression of gene of interest based on real-time PCR system containing SYBR Green. Yeastern's Deoxy<sup>+</sup> HiSpec RT, RealStart DNA polymerase and all the components for real-time SYBR Green RT-PCR are skillfully mixed within a single tube. The unique buffer system allows highly specific quantification by preventing the formation of nonspecific products and primer-dimers.

## Content

2× SYBR Green RT-PCR Premix containing:

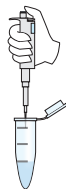
- RealStart Taq DNA polymerase
- Reverse transcriptases
- dATP, dCTP, dGTP, dTTP mix
- 5 mM MgCl<sub>2</sub>
- SYBR<sup>®</sup> Green I
- ROX

## Procedure

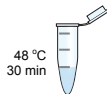
### A. Preparing the reaction mixture on ice

Component	Volume	Final conc.
2× SYBR Green RT-PCR premix	12.5 µl	1×
Forward primers (5-10 µM)	variable	0.6-1.0 µM
Reversed primers (5-10 µM)	variable	0.6-1.0 µM
Template RNA	2-5 µl	
ddH <sub>2</sub> O	variable	

Total volume 25 µl



### B. Mix by pipetting

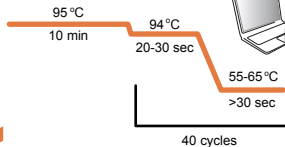


### C. Reverse Transcription



### D. Real-Time PCR

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



### E. Melting Curve and Analysis

## SYBR Green RT-PCR Premix Performance Test

High sensitivity of amplification by SYBR Green RT-PCR is confirmed by using 10 copies of viral RNA as the template.