Yeastern Biotech Co., Ltd

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This product is intended to be used for life science research only. It has not been approved for drug or diagnostic purpose. YEASTERN's products should not be resold, modified for resale, or used to manufacture commercial products without written approval by YEASTERN. YEASTERN guarantees the performance of all products in the manner described in our protocol. The purchaser must determine the suitability of the product for its particular use. Should any product fail to perform satisfactorily due to any reason other than misuse, YEASTERN will replace it free of charge.

Ver. L0308

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Deoxy+

OneStep RT-PCR Kit

Cat. No.
FYT503-50P
FYT503-100P

Deoxy+ OneStep RT-PCR Kit

Concentration: 2× **Storage:** - 20 ℃

Description

The Deoxy+ OneStep RT-PCR Kit is a ready-to-use master mix which eliminates the need for optimization of reaction and cycling conditions for one-step RT-PCR. The reaction can be prepared by simply adding template RNA and primers to the master mix. The use of Yeastern's RealStart DNA polymerase and Deoxy+ HiSpec RT enables reliable real-time RT-PCR quantification on any real-time PCR machines. Since it is a one-tube reaction, the procedure makes high-throughput analysis possible. After reverse transcription, reactions are heated to 95˚C for 10 minutes to inactivate the reverse transcriptase and simultaneously activate RealStart Taq DNA polymerase. This one-step formulation eliminates any nonspecific amplification products such as primer-dimers and reduces background smear, ensuring highly sensitive and reproducible RT-PCR.

Content

2× OneStep RT-PCR Premix containing:

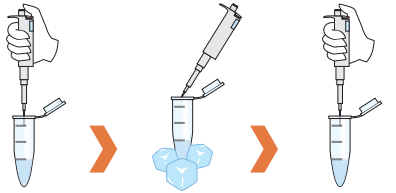
- RealStart Taq DNA polymerase
- Deoxy+ HiSpec Reverse Transcriptase
- dATP，dCTP，dGTP，dTTP mix
- 5 mM $MgCl_2$

Procedure

A. Preparing the master mix on ice

Component	Volume	Final conc.
2× OneStep 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
ddH_2O	variable	

Total volume 23 µl

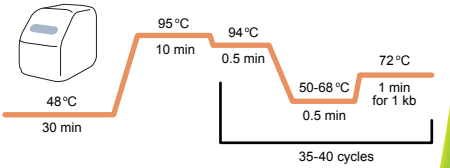


B. Mix by pipetting

C. Add 2 µl of the RNA

D. Mix carefully by pipetting

E. Program your instrument



F. PCR tubes are kept on ice until the thermal cycle has reached 48 ℃. Then place the PCR tubes in the thermal cycle and start the RT-PCR program.

OneStep RT-PCR Premix Performance Test

High sensitivity of cDNA amplification by OneStep RT-PCR is confirmed by using 10 copies viral RNA as the template (amplified fragment: 500 bp).

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