



One Step qRT-PCR mastermix 2x UNG+ for probe (FAST)

Enzyme mix (U+)	80 μ L
5 \times RT-qPCR buffer (U+)	0.4 mL

For research use only

Cat No: YT4519

Size: 100 RXN

Store at -20°C

Description

One Step RT-qPCR Probe Kit U+ (Fast) is designed for one-step real-time RT-PCR using probe detection, all RT-PCR steps can be performed in a single tube. This kit can complete 45 cycles of amplification within 40 minutes.

One Step RT-qPCR Probe Kit U+ (Fast) contains heat-labile Uracil N-Glycosylase (UNG), which degrades amplification products from the previous reaction.

Notes:

a. 5 \times RT-qPCR buffer (U+) includes dNTP and Mg²⁺; b. Enzyme mix (U+) includes reverse transcriptase, Hot Start Taq DNA polymerase, RNase inhibitor and UDG; c. Use RNase-Free tips, EP tubes, etc.

IMPORTANT

Before use, thoroughly mix the 5 \times RT-qPCR buffer (U+). If there is any precipitation after thawing, wait for the buffer to return to room temperature, mix and dissolve, and then use them normally.

Reaction setup

Component	20 μ L reaction ^a
5 \times RT-qPCR buffer (U+)	4 μ L
Enzyme mix (U+)	0.8 μ L
Primer Forward	0.1~1.0 μ M
Primer Reverse	0.1~1.0 μ M
TaqMan Probe	0.05~0.25 μ M
Template	X μ L
RNase-Free Water	Up to 20 μ L

a. Reaction volume is 10 ~ 50 μ L

Cycling protocol: Standard

Step	Cycle	Temperature	Duration Min: sec
Reverse Transcription	1	55 $^{\circ}\text{C}$	10:00
Initial denaturation	1	95 $^{\circ}\text{C}$	00:30
Denaturation	45	95 $^{\circ}\text{C}$	00:10
Annealing&Extension		60 $^{\circ}\text{C}$	00:30

Cycling protocol : Fast

Step	Cycle	Temperature	Duration Min: sec
Reverse Transcription	1	55 $^{\circ}\text{C}$	05:00
Initial denaturation	1	95 $^{\circ}\text{C}$	00:05
Denaturation	43	95 $^{\circ}\text{C}$	00:03
Annealing&Extension		60 $^{\circ}\text{C}$	00:10

a. Reverse transcription temperature is between 50 $^{\circ}\text{C}$ to 60 $^{\circ}\text{C}$, increasing the temperature helps to amplify complex structures and high CG content templates ; b. The optimal annealing temperature needs to be adjusted based on the T_m value of the primer, and select the shortest time for fluorescence signal collection based on the Real Time PCR instrument.

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