EURx® MOLECULAR BIOLOGY PRODUCTS

OneStep RT-PCR Kit

Cat. No.	size
E0803-01	25 reactions
E0803-02	100 reactions

Storage Conditions: Store at -20°C.

Quality Control:

All preparations are assayed for contaminating endonucleases, exonucleases, nonspecific RNases, single- and double-stranded DNase activities.

OneStep RT-PCR Kit is convenient system for setting up one-tube RT-PCR reactions. It contains Master Enzyme Mix including highly processive dART reverse transcriptase, "hot start" DNA polymerase and unique RNase Inhibitor working well at elevated temperature. Master Buffer contains optimized 2 x buffer including dNTPs, stabilizers and reaction enhancments.
Kit is designed for sufficient amplification DNA from any RNA with high specificity and sensitivity in a one-step process. Our system is dedicated for analytic as well as cloning purposes.

COMPONENT:	E0803-01	E0803-02
2 x Master Buffer Mix	350 µl	2 x 0.7 ml
Master Enzyme Mix	25 µl	100 µl
Nuclease-free Water	1 ml	4 x 1 ml

Reagents are provided for 25 or 100 RT-PCR reactions of 25 µl each.

Protocol:

1. In 0.2 ml PCR tube, combine as follows:

Component:	Amount:
2 x Master Buffer Mix	12.5 µl
Sens primer 10 µM	1 µl
Reverse primer 10 µM	1 µl
RNA (10 ng—2 µg)	x µl
Master Enzyme Mix	1 µl
Nuclease-free Water	to 25 µl

2. Gently mix reaction by pipetting or if needed briefly centrifuge.
3. Transfer the sample to thermal cycler. Incubate as follows: 30 min at 50°C followed by standard PCR with annealing temperatures suitable for the primers.

Step	Temperature	Time	Number of Cycles
Pre-denaturation	94°C	5 min	1
Denaturation	94°C	30 s	30-40 cycles
Annealing	50-65°C	30 s	
Extension	72°C	1 min/1kb	
Final Extension	72°C	5 min	
Cooling	4°C	Indefinite	1

4. Analyze 5-20 µl of RT-PCR sample by agarose gel electrophoresis with suitable molecular markers.

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