

Technical Bulletin 1/1.

Product Information:

One step RT-PCR Master Mix (2x) (Cat.: R2120) **Storage:** -20°C

Size: 1.25 mL (100 Reactions)

Description:

The ready-to-use one step RT-PCR Master Mix contains 2x M-MLV Reverse Transcriptase, Taq DNA Polymerase, recombinant RNase Inhibitor, Ultrapure nucleotides, magnesium and PCR reaction buffers, designed for the reverse transcription (RT) and polymerase chain reaction (PCR) amplification of a specific target RNA from either total RNA or mRNA. Simply mix the RNA template, primers, and RNase free water with the RT-PCR master mix and the reactions are ready to cycles.

Procedure:

Prepare a single reaction (total volume: 25µL) in a 0.2 or 0.5 mL microtube.

Component	Volume (µL)	Final Concentration
One step RT-PCR Master Mix (2x)	12.5	1x
RNA Template	0.1-1	determined by user
Forward primer (5µM)	1	200nM
Reverse primer (5µM)	1	200nM
PCR grade/RNase-free water	up to 25 µL	

Setup typical thermal cycling parameters

1. Reverse Transcription (RT) step: 45°C 15 minutes
2. Enzyme activation step: 95°C 2 minutes
3. 25-40 cycles:
Denature 95°C 30 seconds
Annealing X°C 30 seconds dependent on T _m of primers
Extension 68°C 1 minute (1min per kb amplicon)
4. Final extension 68°C 1 minute (1min per kb amplicon)
5. Hold 4°C

Precautions and Disclaimer:

This product and procedure described are intended for R&D use only. Purchase of this product does not convey a license to perform any patented process.

