



**One step RT-PCR master mix (100 test)**

Cat No : YT4518

**Kit components:**

2X One step RT-PCR buffer	1ml
One step enzyme mix	100µl

**Description:**

YTA One-Step RT-PCR Kit is a highly efficient reaction mixture contains all necessary components for reverse transcription and subsequent PCR amplification in "one step". This is a ready-to-use solution that contains components required for RT-PCR amplification of RNA templates. The mix includes M-MuLV reverse transcriptase, Taq DNA polymerase, dNTPs, reaction buffer and RNase inhibitor. The user needs only to add template, the primer set and water to the Master Mix to set up the RT-PCR reaction.

**Features:**

- Fast and easy one-tube setup
- Efficient thermostable Reverse Transcriptase
- Convenience and time saving
- High sensitivity and specificity

**Applications:**

- Routine and direct RT-PCR amplification of RNA templates

**How to use:**

Thaw system components and mix by inverting several times.

1. Pipet the mater mix in to thin – walled 0.2 ml PCR tubes.
2. Mix the following components in a sterile RNase-free microfuge tubes , based on a standard 20 µL final reaction mix :

Component	volume
One-step 2X RT-PCR buffer	10µl
One -step enzyme mix	1µl
Forward primer(10pmol)	1µl
Reverse primer(10pmol)	1µl
RNA template	variable
Nuclease free water	variable
Total volume	20

3. Mix and spin briefly
4. Place in the thermocycler machine.
5. start reactions immediately, as follows:

Step	temperature	time	cycles
cDNA synthesis	42-55°C (Recommended 50°C)	30-60min	1
Initial denaturation	95°C	15min	1
Denaturation	95°C	20sec	30-40
Annealing	Tm	30-60 sec	
Extension	72°C	30sec	
Final extension	72°C	2-5min	

**Storage:**

- Should be stored at -20
- Minimize the number of freeze-thaw cycles by storing in working aliquots