Data Sheet (01.06.2005)

mi-RT Go

Cat.-No.	Size
mi-E8101	50 rxs

The kit for mi-RT Go contains:

1. Reaction buffer A (5x) ($MgCl_2$ 15 mM)
2. dNTPs (5 mM)
3. Mixture of enzymes
4. DNAse-RNAse free water

Storage at -20°C

For research use only!

RT Go - PCR kit

The RT-PCR kit is especially designed for simple and effective one-tube RT-PCR. The reverse transcription step is directed by M-MuLV reverse transcriptase. As soon as the cDNA is synthesized, a chemically modified "Hot-Start" Taq DNA polymerase, is activated by heating up the reaction 10 min to 95°C. As soon as the enzyme is activated, regular PCR is performed.

Protocol for RT Go - PCR

please mix in the PCR-tube:

1. Total RNA		1-10 ng
2. Reaction buffer A (5x)		5 µl
3. dNTP (5mM)		2.5 µl
4. Primers	reverse	20 pmoles
	forward	10 pmoles
5. Enzymes mix		1 µl
6. Water	up to the final volume of 25 µl	

After intensive mixing, centrifuge briefly and place the tube into the thermocycler. We recommend to use the following program:

I.	65°C	5 min
II.	4°C	3 min
III.	42°C	30 min (15 – 30 min)
IV.	95°C	10 min
V.	25 - 35	amplification cycles
VI.	72°C	5 min
VII.	10°C	storage

Step III (reverse transcription) can be performed longer (up to 1 hour) in the case of long or highly structured template. The temperature of amplification steps should be optimized for the particular amplicon.