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AccuPower[®] RT-PCR Master Mix contains all the components necessary for cDNA synthesis and amplification in one tube.

Advantages

- Speed** Substantial reduction in reaction setup time.
- Stability** As each tube of AccuPower[®] RT-PCR Master Mix contains a stabilizer (patented in US and Korea), which can maintain the stability of the RTase and DNA polymerase up to 2 years at -20°C. Pre-denaturation during PCR has no effects on the activity of the DNA polymerase.
- Reproducibility and Yield** The strict functional QC assays demonstrated highly consistent and reproducible RT-PCR performance. In most applications an increase in yield is observed as compared to the standard reactions.
- Simplicity** The fewer manual steps allow reduction in potential errors. Each tube contains tracking dye and precipitant for agarose gel electrophoresis, eliminating the needs for a separate loading buffer.

Experimental Protocol

- Mix the template RNA and the reverse primer in a sterile tube as indicated below;

Concentration of template RNA and primer		
Reaction volume		20 µl reaction
Master Mix		2X
Template RNA	Total RNA	0.5~1.0 µg
	Poly(A) RNA	0.05~0.1 µg
Primer	Primer	10~30 pmole

- Incubate the mixture at 70°C for 5 min and place it on ice.
- Transfer the incubated mixture and the forward primer to AccuPower[®] RT-PCR Master Mix tube, and then fill up the reaction volume with DEPC-DW.
- Mix the reaction mixture by vortexing or pipetting, and briefly spin down.
- Add mineral oil to each tube (This step is unnecessary when using a thermal cycler with top heating.).
- Perform cDNA synthesis reaction as follows :
 - 42°C, 60 min. (cDNA synthesis)
 - 94°C, 5 min. (RTase inactivation)
- Perform PCR cycles according to the PCR condition.
(Annealing temperature and time need to be optimized for each primer/template combination.)

Ordering Information

Tube type	Reaction	Cat.No	Description	Tube type	Reaction	Cat.No	Description
0.2 ml Tube	20 µl	K-2055	0.2 ml thin-wall 8-strip tubes with attached cap / 96 tubes	96-well	20 µl	K-2262-4	thin-wall 96-well flat plate
		K-2055-B	0.2 ml thin-wall 8-strip tubes with attached cap / 480 tubes			K-2262-5	thin-wall 96-well full-skirted plate
	50 µl	K-2057	0.2 ml thin-wall 8-strip tubes with attached cap / 96 tubes			K-2262-6	thin-wall 96-well semi-skirted plate
		K-2057-B	0.2 ml thin-wall 8-strip tubes with attached cap / 480 tubes	384-well	5 µl	K-2084-1	thin-wall 384-well full-skirted plate
96-well	10 µl	K-2262-1	thin-wall 96-well flat plate		10 µl	K-2084-2	thin-wall 384-well full-skirted plate
		K-2262-2	thin-wall 96-well full-skirted plate		20 µl	K-2084-3	thin-wall 384-well full-skirted plate
		K-2262-3	thin-wall 96-well semi-skirted plate	0.5 ml Tube	50 µl	k-2056	0.5 ml thin-wall tubes with attached cap / 100 tubes
Master Mix	20 µl	K-2264	1ml Of 2X Master Mix solution				

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