AccuPower® RT PreMix

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***AccuPower*® RT PreMix is a new, powerful, ready-to-use RT kit for the synthesis of cDNA with superiority to other RT products.**

Advantages

Speed

Substantial reduction in reaction setup time.

Stability

As each tube of *AccuPower*® RT PreMix contains a stabilizer (patented in US and Korea), which can maintain the stability of the RTase up to 2 years at -20°C.

Reproducibility and Yield

The strict functional QC assays demonstrated highly consistent and reproducible RT 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 **(exclude K -2041)** and precipitant for agarose gel electrophoresis, eliminating the needs for a separate loading buffer

Experimental Protocol

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

Concentration of template RNA and primer

Reaction volume		20 μl reaction	50 μl reaction
Template RNA	Total RNA	0.5~1.0 μg	1.0~2.0 μg
	Poly(A) RNA	0.05~0.1 μg	0.1~0.2 μg
Primer	Oligo dT_{18}	0.5 μg(100 pmole)	1.0 μg(200 pmole)
	Sequence specific	10~30 pmole	20~50 pmole

- Incubate the mixture at 70°C for 5 min and place it on ice.
- Transfer the incubated mixture to an *AccuPower*® RT PreMix tube, and then fill up the reaction volume with DEPC – DW.
- Dissolve the vacuum dried blue pellet by vortexing, 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)

☞ If PCR is needed following RT reaction, perform the PCR using *AccuPower*® PCR PreMix as follows :

i) Transfer 2~5 μl of the RT product (synthesized cDNA) to *AccuPower*® PCR PreMix tube.

ii) 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-2041	0.2 ml thin-wall 8-strip tubes with attached cap / 96 tubes	96-well	20 μl	K-2261-4	thin-wall 96-well flat plate
		K-2041-B	0.2 ml thin-wall 8-strip tubes with attached cap/480 tubes			K-2261-5	thin-wall 96-well full-skirted plate
	50 μl	K-2043	0.2 ml thin-wall 8-strip tubes with attached cap / 96 tubes			K-2261-6	thin-wall 96-well semi-skirted plate
		K-2043-B	0.2 ml thin-wall 8-strip tubes with attached cap/480 tubes	384-well	5 μl	K-2082-1	thin-wall 384-well full-skirted plate
96-well	10 μl	K-2261-1	thin-wall 96-well flat plate		10 μl	K-2082-2	thin-wall 384-well full-skirted plate
		K-2261-2	thin-wall 96-well full-skirted plate		20 μl	K-2082-3	thin-wall 384-well full-skirted plate
		K-2261-3	thin-wall 96-well semi-skirted plate	0.5ml Tube	50 μl	K-2042	0.5 ml thin-wall tubes with attached cap / 100 tubes

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