SuPrimeScript RTase

Product Name	Cat. No.	Size
SuPrimeScript RTase	SR-1000	50 Units X 1
	SR-1001	50 Units X 2
	SR-1002	50 Units X 4

Package information

SR-1000	1. SuPrimeScript RTase (RNase Inhibitor included, 50 Units X 1, 1 U/㎕, 50㎕) 2. 2X Reaction Buffer (600㎕ X 1) 3. 10 mM dNTPs Mixture (each 2.5 mM, 125㎕ X 1)

Description

SuPrimeScript RTase is a mutant of MMLV RTase with reduced RNase H activity and increased thermal stability.
This product provides the necessary components to generate cDNA from RNA except primer.

Usage Information

- ▣ The reaction temperature for cDNA synthesis is **50℃**.
- ▣ The reaction time for cDNA synthesis is **60 min**.
- ▣ The concentration of Reaction Buffer is **2X**.
- ▣ SuPrimeScript RTase is **RNase H⁻**.

Protocol

The following 20㎕ reaction volume can be used for cDNA synthesis.

1. Prepare the following components to a PCR tube.

Components	Volume
10 mM dNTPs Mixture	2㎕
2X Reaction Buffer	10㎕
- oligo dT primer (50~100 pmoles/㎕) - Random primer (50~100 pmoles/㎕) - Gene specific primer (15~20 pmoles/㎕)	1~2㎕
- Total RNA (1 ng~5 μg) - mRNA (100 pg~0.5 μg)	X㎕
SuPrimeScript RTase (RNase Inhibitor included, 1 U/㎕)	1㎕
DEPC treated D.W.	add up to 20㎕
Total Reaction Volume	20㎕

2. Mix gently and centrifuge briefly.

3. If an oligo dT primer or gene specific primer is used, incubate for 60 minutes at 50℃.
   If a random hexamer primer is used, incubate for 10 minutes at 25℃ followed by 60 minutes at 50℃.

4. Stop the reaction by heating at 70℃ for 10 minutes and chill on ice.

Note: When performing PCR, no more than 1/5 of the final PCR volume should derive from the finished RT reaction.
ex) for a 20㎕ PCR assay, use ≤4㎕ of the finished RT reaction.

◉ Research Use Only
◉ Store at -20℃