

SuPrimeScript RT Premix (2X)

Product Name	Cat. No.	Size
SuPrimeScript RT Premix (2X)	SR-2000	1.0 ml X 1
SuPrimeScript RT Premix (with oligo (dT), 2X)	SR-4000	1.0 ml X 1

Package information

SR-2000	SuPrimeScript RT Premix (2X) (1.0 ml X 1) - with SuPrimeScript RTase, reaction buffer, RNase Inhibitor, enzyme stabilizer and dNTPs mixture
SR-4000	SuPrimeScript RT Premix (with oligo(dT), 2X) (1.0 ml X 1) - with SuPrimeScript RTase, reaction buffer, RNase Inhibitor, oligo (dT ₂₀), enzyme stabilizer and dNTPs mixture

Description

SuPrimeScript RT Premix Products are a 2X master mix and ready-to-use type to generate cDNA from RNA template,

Usage Information

- The reaction temperature for cDNA synthesis is 50°C.
 - The reaction time for cDNA synthesis is 60 min. ■
- SuPrimeScript RTase is **RNase H⁻**.

Protocol

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

1. Prepare the following components to a PCR tube.

[SuPrimeScript RT Premix]

Components	Volume
SuPrimeScript RT Premix (2X)	10 μ l
- oligo dT primer (50~100 pmoles/ μ l) - Random primer (50~100 pmoles/ μ l) - Gene specific primer (15~20 pmoles/ μ l)	1~2 μ l
- Total RNA (1 ng~5 μ g) - mRNA (100 pg~0.5 μ g)	X μ l
DEPC treated D.W.	add up to 20 μ l
Total Reaction Volume	20 μ l

- In case 8-strip PCR tube type products that SR-3000 add the components to 8-strip PCR tube that contain RT Premix 10 μ l.

[SuPrimeScript RT Premix (with oligo (dT)/random hexamer, 2X)]

Components	Volume
SuPrimeScript RT Premix	10 μ l
with oligo(dT), 2X with random hexamer, 2X	
- Total RNA (1 ng~5 μ g) - mRNA (100 pg~0.5 μ g)	X μ l
DEPC treated D.W.	add up to 20 μ l
Total Reaction Volume	20 μ l

- In case 8-strip PCR tube type products that SR-5000, 5100 add the components to 8-strip PCR tube that contain RT Premix 10 μ l.

2. Mix gently and centrifuge briefly.
3. If an oligo dT primer or gene specific primer is used, incubate for 60 minutes at 50°C.
If a random hexamer primer is used, incubate for 10 minutes at 25°C followed by 60 minutes at 50°C.
4. Stop the reaction by heating at 70°C 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 μ l PCR assay, use $\leq 4\mu$ l of the finished RT reaction.

- Research Use Only
- Store at -20°C