

## SuPrimeScript RT Premix (2X)

Product Name	Cat. No.	Size
SuPrimeScript RT Premix (2X)	SR-2000	1.0 ml X 1
	SR-2001	1.0 ml X 3
	SR-2002	1.0 ml X 5
SuPrimeScript RT Premix (2X, 8-strip)	SR-3000	96 tube X 1
	SR-3001	96 tube X 3
	SR-3002	96 tube X 5
SuPrimeScript RT Premix (with oligo (dT), 2X)	SR-4000	1.0 ml X 1
	SR-4001	1.0 ml X 3
	SR-4002	1.0 ml X 5
SuPrimeScript RT Premix (with oligo (dT), 2X, 8-strip)	SR-5000	96 tube X 1
	SR-5001	96 tube X 3
	SR-5002	96 tube X 5
SuPrimeScript RT Premix (with random hexamer, 2X)	SR-4100	1.0 ml X 1
	SR-4101	1.0 ml X 3
	SR-4102	1.0 ml X 5
SuPrimeScript RT Premix (with random hexamer, 2X, 8-strip)	SR-5100	96 tube X 1
	SR-5101	96 tube X 3
	SR-5102	96 tube X 5

### 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-3000	2X SuPrimeScript RT Premix 10 $\mu$ l in 0.2ml 8-strip PCR tube (96 tube 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 <sub>20</sub> ), enzyme stabilizer and dNTPs mixture
SR-5000	2X SuPrimeScript RT Premix (with oligo (dT)) 10 $\mu$ l in 0.2ml 8-strip PCR tube (96 tube X 1) - with SuPrimeScript RTase, reaction buffer, RNase Inhibitor, oligo (dT <sub>20</sub> ), enzyme stabilizer and dNTPs mixture
SR-4100	SuPrimeScript RT Premix (with random hexamer, 2X) (1.0 ml X 1) - with SuPrimeScript RTase, reaction buffer, RNase Inhibitor, random hexamer, enzyme stabilizer and dNTPs mixture
SR-5100	2X SuPrimeScript RT Premix (with random hexamer) 10 $\mu$ l in 0.2ml 8-strip PCR tube (96 tube X 1) - with SuPrimeScript RTase, reaction buffer, RNase Inhibitor, random hexamer, enzyme stabilizer and dNTPs mixture

● Research Use Only

● Store at -20°C

### 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<sup>-</sup>.

### Protocol

The following 20 $\mu$ 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 $\mu$ l
- oligo dT primer (50~100 pmoles/ $\mu$ l) - Random primer (50~100 pmoles/ $\mu$ l) - Gene specific primer (15~20 pmoles/ $\mu$ l)	1~2 $\mu$ l
- Total RNA (1 ng~5 $\mu$ g) - mRNA (100 pg~0.5 $\mu$ g)	X $\mu$ l
DEPC treated D.W.	add up to 20 $\mu$ l
Total Reaction Volume	20 $\mu$ 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 $\mu$ l.

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

Components	Volume
SuPrimeScript RT Premix	10 $\mu$ l
with oligo(dT), 2X	
with random hexamer, 2X	
- Total RNA (1 ng~5 $\mu$ g) - mRNA (100 pg~0.5 $\mu$ g)	X $\mu$ l
DEPC treated D.W.	add up to 20 $\mu$ l
Total Reaction Volume	20 $\mu$ 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 $\mu$ 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 $\mu$ l PCR assay, use  $\leq$ 4 $\mu$ l of the finished RT reaction.