

SuPrimeScript RT-PCR Kit SuPrimeScript RT-PCR Premix (2X)

Product Name	Cat. No.	Size	
SuPrimeScript RT-PCR Kit	SR-6000	50 rxn [*] X 1	
SuPrimeScript RT-PCR Premix (2X)	SR-7000	1.0 ml X 1	

* For 50 X 50 pl reaction

Package information

SR-6000	Enzyme Solution (250 # X 1) - with SuPrimeScript RTase, HS Prime Taq DNA Polymerase and RNase Inhibitor
	2X Reaction Buffer (1.5 ml X 1) - with reaction buffer, dNTPs mixture and loading dye
,	2X SuPrimeScript RT-PCR Premix (1.0 ml X 1)
SR-7000	- with SuPrimeScript RTase, HS Prime Taq DNA Polymersae,
	RNase Inhibitor , reaction Buffer, enzyme stabilizer, dNTPs
	mixture and loading dye

Description

SuPrimeScript RT-PCR Kit and RT-PCR Premix provides a complete system for fast, high-yield and reliable single tube one-step RT-PCR.

Usage Information

- The reaction temperature for cDNA synthesis is 50°C.
- The reaction time for cDNA synthesis is 30 min.
- In SuPrimeScript RT-PCR Kit, the concentration of Reaction Buffer is 2X.
- SuPrimeScript RTase is RNase H .
- SuPrimeScript RT-PCR Kit and RT-PCR Premix contains HS Prime Taq DNA Polymerase (hot-start Taq DNA Polymerase).
- Research Use Only
- ☐ Store at -20°C

Protocol

The following $20\,\mathrm{\mu}\ell$ reaction volume can be used for one-step RT-PCR

1. Prepare the following components to a PCR tube.

SuPrimeScript RT-PCR Kit

Components		Volume	Volume
RNase-free water		add up to	add up to
		20 <i>µ</i> l	50 <i>µ</i> l
Primer	Upstream Primer (10 pmoles/ <i>此</i>)	1 <i>µ</i> l	2.5µl
	Downstream Primer (10 pmoles/此)	1 μl	2.5µl
RNA	- Total RNA (1 ng~500 ng) - mRNA (0.1 ng~50 ng)	×μl	×μl
2X Reaction Buffer		10μl	25 <i>µ</i> l
Enzyme Solution		2μl	5μl

→ Mix by pipetting gently up and down. Centrifuge briefly to collect residual liquid from the wall of the tube.

• SuPrimeScript RT-PCR Premix (2X)

Components		Volume	
RNase-free water		add up to	
		20 <i>µ</i> l	
Primer	Upstream Primer (10 pmoles/யி)	1 μl	
	Downstream Primer (10 pmoles/யி)	1 μℓ	
RNA	- Total RNA (1 ng~500 ng)	xμl	
	- mRNA (0.1 ng~50 ng)		
2X SuPrimeScript RT-PCR Premix		10 <i>µ</i> l	

- In case 8-strip PCR tube type product that SR-8000, add the Primer, RNA and RNase-free water to 8-strip PCR tube that contain RT-PCR Premix 10 𝑢.
- → Mix by pipetting gently up and down. Centrifuge briefly to collect residual liquid from the wall of the tube.

2. PCR cycling

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Step	Temp. & Time		Cycles	
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cDNA synthesis	50℃	30 min	1	
Initial denaturation	95℃	5 min	1	
Denaturation	95℃	30 sec		
Annealing	x°C	30 sec	30 ~ 40	
Extension	72℃	1 min/kb		
Final Extension	72℃	5 min	1	

3. Separate the PCR products by agarose gel electrophoresis and visualize with EtBr or any other means.