

SuPrimeScript cDNA Synthesis Kit

Product Name	Cat. No.	Size
SuPrimeScript cDNA Synthesis Kit	SRK-1000	50 Units X 1

Package information

SRK-1000	1. SuPrimeScript RTase (RNase Inhibitor included, 50 Units X 1, 1 U/ μ l, 50 μ l) 2. 2X Reaction Buffer (600 μ l X 1) 3. 10 mM dNTPs Mixture (each 2.5 mM, 125 μ l X 1) 4. 10X oligo (dT ₂₀) (125 μ l X 1) 5. 10X random hexamer (125 μ l X 1)
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Description

SuPrimeScript cDNA Synthesis Kit provides all the necessary components to generate cDNA from RNA. SuPrimeScript RTase is a mutant of MMLV RTase with reduced RNase H activity and increased thermal stability.

Usage Information

- The reaction temperature for cDNA synthesis is **50°C**.
- 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 μ l reaction volume can be used for cDNA synthesis.

1. Prepare the following components to a PCR tube.

Components	Volume
10 mM dNTPs Mixture	2 μ l
2X Reaction Buffer	10 μ l
10X oligo (dT ₂₀) or 10X random hexamer	2 μ l
- Total RNA (1 ng~5 μ g) - mRNA (100 pg~0.5 μ g)	X μ l
SuPrimeScript RTase (RNase Inhibitor included, 1 U/ μ l)	1 μ l
DEPC treated D.W.	add up to 20 μ l
Total Reaction Volume	20 μl

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