Servicebio® SweScript First Strand cDNA Synthesis SuperMix for PCR

Cat. #：G3336-50

Product Information

Product Name	Cat. No.	Spec.
SweScript First Strand cDNA Synthesis SuperMix for PCR	G3336-50	50 rxns

Product Description/Introduction

This product includes a 5× ready-to-use premix (5× SweScript First Strand cDNA Synthesis SuperMix for PCR) developed specifically for 1st strand cDNA synthesis. For the reaction, only the template RNA and Nuclease-Free Water need to be added. The premix contains all the reagents required for the reverse transcription reaction (SweScript RT, RNase Inhibitor, Oligo(dT)$_{18}$ Primer, Random Primer, dNTPs and optimized buffer system). After adjusting the ratio of Oligo(dT)$_{18}$ Primer to Random Primer used, combined with the mutant SweScript RT reverse transcriptase with high thermal stability and continuous synthesis ability obtained through in vitro evolutionary screening, it can synthesize 1st strand cDNAs of at least 15 kb in the range of 42°C-55°C. The synthesized cDNA product can be directly used for subsequent PCR reaction, which is easy to operate and reduces the probability of contamination.

Storage and Shipping Conditions

Ship with wet ice; Store at -20℃, valid for 12 months.

Product Contents

Component Number	Component	G3336-50
G3336-1	5×SweScript First Strand cDNA Synthesis SuperMix for PCR	200 μL
G3336-2	Nuclease-Free Water	1 mL
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Assay Protocol / Procedures

1. Reverse transcription reaction system preparation (20 μL reaction system recommended):

Component	Volume
5×SweScript First Strand cDNA Synthesis SuperMix for PCR	4 μL
Total RNA/ mRNA	0.1 ng-5 μg / 10 pg-0.5 μg
Nuclease-Free Water	Add to 20 μL

2. Gently mix and centrifuge.
3. Reverse transcription program settings :

Temperature	Time
25℃	5 min
42-50℃[a]	15-30 min
85℃	5 s

a: For high GC or complex templates, the reverse transcription temperature can be increased to 55 ° C.

Note

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1. Please wear disposable gloves when handling to avoid RNase contamination.
2. Be sure to place 5×SweScript First-Strand cDNA Synthsis SuperMix for PCR on ice.
3. 5 × SweScript First-Strand cDNA Synthsis SuperMix for PCR contains high concentrations of glycerol and should be briefly centrifuged before use.
4. Reverse transcription products can be stored at -20 ℃ for a short time. If long-term storage is required, it is recommended to store at -80 ℃ after packaging to avoid repeated freezing and thawing.
5. If the subsequent PCR primers are designed across introns, the genome removal step can be selected.

For Research Use Only!

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