

AllScript All-in-One First-Strand cDNA Synthesis SuperMix for qPCR



Cat. No. ABTGMBR321

Storage : at -20°C for one year

Description

AllScript All-in-One First-Strand cDNA Synthesis SuperMix for qPCR provides all the necessary components for cDNA synthesis from total RNA or mRNA. The SuperMix is provided at 5x concentration and used at 1x concentration by adding RNA and H₂O. The resulting cDNA are suitable for regular PCR and for qPCR.

Highlights

- One-tube format for simple and fast setup and reduce pipetting variability.
- The optimal ratio of oligo (dT)₁₈ primer to random primer (N9) for PCR ready cDNA.
- PCR ready cDNA in 30 minutes (suitable for qPCR).
- cDNA up to 12 kb.

Application

Multiple copy and low copy gene detection

Kit Contents

Component	50 rxns
5×AllScript All-in-One SuperMix for qPCR	200 µl
RNase-free Water	1 ml

First-Strand cDNA synthesis

1. Reaction Components

Component	Volume
Total RNA/mRNA	50 ng -5 µg/5-500 ng
5×AllScript All-in-One SuperMix for qPCR	4 µl
RNase-free Water	to 20 µl

2. Incubation

- For RNA template with poly(A)⁺, incubate at 42°C for 30 minutes.
- For RNA template without poly(A)⁺, incubate at 25°C for 10 minutes, then at 42°C for 30 minutes.

3. Incubate at 85°C for 5 seconds to inactivate enzymes.

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RT-PCR Reaction Components

Component	Volume	Final Concentration
Template	2 μ l	as required
Forward Primer (10 μ M)	1 μ l	0.2 μ M
Reverse Primer (10 μ M)	1 μ l	0.2 μ M
2 $\times$ AllScript HiFi PCR SuperMix II	25 μ l	1x
ddH ₂ O	Variable	-
Total volume	50 μ l	-

Thermal cycling conditions

94°C	2-5 min	30-35 cycles
94°C	30 sec	
50-60°C	30 sec	
72°C	1-2 kb/min	
72°C	5-10 min	