

HelixCript™ Easy cDNA Synthesis Kit

[All-in-One]

Kit contents

HelixCript™ Easy cDNA Synthesis Kit

Cat. No.	ECDNA50	ECDNA100
Oligo d(T) 20	50 µl	100 µl
Random hexamers	50 µl	100 µl
Easy 5x RT Reaction Mix	200 µl	400 µl
Easy RT Enzyme Mix	50 µl	100 µl
RNase-free Water	150 µl	300 µl
Certificate Analysis	1 ea	1 ea

* Store at -20°C

Description

HelixCript™ Easy cDNA Synthesis Kit is the mixed type of HelixCript™ 1st-Strand cDNA Synthesis Kit for easy preparation of RT reaction mixture. HelixCript™ *Thermo* Reverse Transcriptase and RNase Inhibitor are mixed as RT Enzyme Mix. 5X RT Reaction Mix contain the dNTP mix and DTT. This mixed formulation is designed to save time and reduce the error and contamination opportunities. **HelixCript™ Easy cDNA Synthesis Kit** provides the simple and fast preparation of RT reaction mixture for the efficient synthesis of first strand cDNA.

Application

Generation of first-strand cDNA for subsequent PCR or Real-time PCR
 cDNA library construction

Quality control assay data

Functional analysis

HelixCript™ Easy cDNA Synthesis Kit was functionally tested for RT-PCR amplification on different sized products (0.5 ~ 5 kb) with 500 ng of total RNA.

Quality authorized by Youn Taek Go




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Protocol

1. Recommended amounts of RNA template and primers for first-strand cDNA synthesis.

- 1) RNAs : total RNA : 10 ng ~ 5 µg
Poly(A)⁺ RNA : 1 ng ~ 500 ng
- 2) Primers : oligo-d(T)₂₀ : 0.5 µg or 50 pmoles
Random Hexamer : 50 pmoles
Gene-Specific Primer : 15 ~ 20 pmoles

2. Mix following components in a tube

Components	Volumes (µl)
RNA Template	X µl
Oligo-d(T) ₂₀ , Random Hexamer, or Gene-Specific Primers	1 µl
Rnase-free Water	Y µl
Total	15 µl

3. Incubate at 65°C for 5 minutes and immediately place on ice.

4. Add following components into the mixture.

Additional components	Volume (µl)
Easy 5x RT Reaction Mix	4 µl
Easy RT Enzyme Mix	1 µl

5. Incubate the reaction mixture at 50°C for 30 ~ 50 minutes for gene-specific primer.

When oligo-d(T) or random hexamer is used in reaction, perform 10 min at 42°C, followed by 30 ~ 50 min at 50°C.

6. Inactivate the reaction by heating at 70°C for 10 min.

7. Synthesized cDNA is immediately used for PCR or store at -20°C.

Products

Cat. No.	Products	Size
ECDNA50	HelixCript™ Easy cDNA Synthesis Kit [All-in-One]	50 rxns
ECDNA100	HelixCript™ Easy cDNA Synthesis Kit [All-in-One]	100 rxns

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