WizScript™ cDNA Synthesis Kit (High Capacity)

RUO For Research Use Only

REF W2210 (2211)

DESCRIPTION

WizScript™ cDNA Synthesis Kit (High Capacity) is a complete system for the efficient synthesis of high capacity cDNA from RNA templates. The recombinant Ribonuclease Inhibitor, supplied with the kit effectively protects RNA template from degradation. The kit is also supplied with random primers. The first strand of cDNA can be directly used as a template in PCR.

KIT CONTENTS

Contents	W2210	W2211
WizScript™ RTase (200U/μl)	200 μl	200 μl
10X Reaction Buffer	1 ml	1 ml
RNase Inhibitor (40U/μl)	-	100 μl
20X dNTP mix (2.5mM each)	200 μl	200 μl
Random hexamer (50pM)	400 μl	400 μl
RNase free water	1 ml	1 ml

STORAGE CONDITIONS

Store all components at -20°C in a non-frost-free freezer.

QUALITY CONTROL ANALYSIS:

In accordance with Wizbiosolutions Inc. ISO 13485-certified Quality Management System, each lot WizScript™ cDNA Synthesis Kit (High Capacity) is tested against predetermined specifications to ensure consistent product quality.

PROTOCOL

Guidelines of cDNA synthesis :

- For optimal performance of cDNA Synthesis Kit recommends using RNA that is:
  - Free of inhibitor of reverse transcription and PCR
  - Free RNase activity
- Recommended amounts of RNA template and primers for first-strand cDNA synthesis.
  - total RNA : 10 ng ~ 5 μg
  - poly(A)+ RNA : 1 ng ~ 500 ng

1. Prepare 2X RT master mix in a microtube.

Reagent	Volume	
	without RNase Inhibitor	with RNase Inhibitor
10X Reaction Buffer	2 μl	2 μl
20X dNTP mix	1 μl	1 μl
Random hexamer	2 μl	2 μl
WizScript™ RTase	1 μl	1 μl
RNase Inhibitor	-	0.5 μl
RNase free Water	4 μl	3.5 μl
Total	10 μl	10 μl

- Place the 2X RT master mix on ice and mix gently

2. Prepare the reverse transcription reactions.

- Pipette 10μl of 2X RT master mix into a microtube.
- Add 10μl of RNA sample into a microtube, pipetting up and down two times to mix.
- Briefly centrifuge the tube to spin down the contents and to eliminate any air bubbles.
- Place the tube on ice until to RT reaction.

3. Performing reverse transcription.

- Incubate the Reverse transcription reaction mixture as following table.

	Step 1	Step 2	Step 3	Step 4
Temperature (°C)	25	37	85	4
Time	10 min.	120 min.	5 min.	∞

- The synthesized cDNA can be used immediately, without purification, for end-point or real-time PCR or stored at –20°C for future use.

Notes

1. Isolation of poly(A)+ RNA from total RNA is not mandatory, however, doing so may improve the yield and purity of the final product.
2. RNA sample must be free of contaminating genomic DNA.

ORDERING INFORMATION

Product	Cat No.	Package	RNase Inhibitor
WizScript™ cDNA Synthesis Kit (High Capacity)	W2210	200 rxn	-
	W2211	200 rxn	O

Technical Support

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