Technogene
biology

Technogene HyperTherm Synthex cDNA synthesis Kit

provides superior components that ensure efficient first-strand cDNA synthesis from mRNA, total RNA, Adenylated RNA templates.

Components:

- TG Thermo Resistant Reverse Transcriptase(up to 65°C) ;100 µL
- 10x RT Buffer ; 100 µL
- DTT ;40 µL
- Oligo-dT (10µM) ;50µL
- Random Hexamer (10µM) ;50µL
- dNTP(40mM:10mM of each) ;50µL
- Nuclease Free Water(molecular grade)

cDNA synthesis Protocol:

- Thaw on ice and mix very well all reagents.
- Assemble and keep all reactions on ice.
- Combine the following in an RNase-free reaction tube

10X RT Buffer	2 µL
DTT	0.8 µL
40mM dNTP (10mM of each)	1 µL
Random Hexamer Olido dT or specific primer	1 µL or 1 µL
RNA Template	0.1–2 µg total RNA or 50–1000 ng mRNA (poly(A))
NF-Water (RNase/DNase free)	variable
RT Enzyme	2 µL
Total valume	20µL

- collect the drops by centrifugation and mix by pipetting

Incubation:

1. Incubate 5 minutes at 65°C(to denature secondary structures of RNA)
2. .For Hexamer Primers, incubate 10 minutes at 25°C followed by 60°C for 30 minutes
   .For Oligo(dT) or gene-specific Primer, incubate 2 minute at 37°C and then incubate at 60°C for 30 minutes.
3. Inactivate enzyme at 80°C for 5 minutes.

Store products at –20°C or proceed

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