

Oligo (dT)₁₂₋₁₈ Primers Catalog Number: RDPC1

Pack Size: 50 tests

Specifications and Use

Description

Oligo (dT)₁₂₋₁₈ primers are specific for polyadenylated regions of mRNA and can be used in reverse transcription reactions to generate first strand cDNA.

Components

Oligo (dT)₁₂₋₁₈ Primers - Lyophilized. Each vial contains 25 μg . Adjust to a final concentration of $0.5~\mu\text{g}/\mu\text{L}$ by resuspending primers in 50 μL nuclease-free water.

Storage

- The Oligo (dT)₁₂₋₁₈ primers resuspended in nuclease-free water are stable for up to one year at ≤ -20° C in a non-frost free freezer. Aliquot in single use portions. Do not use past the expiration date above.
- Avoid repeated freeze-thaw cycles.

We recommend the following protocol for R&D Systems' Oligo $(dT)_{19,18}$ Primers.

Reverse Transcription Reaction:

- Thaw all reagents completely on ice. All reactions should be assembled on ice.
- 2. Resuspend the RT primer according to the instructions in the "Specifications and Use" section.
- Pipet the following into a nuclease-free tube:
 - 1 to 5 μg of total RNA (up to 11 μL)
 - 1 μ L Oligo (dT)₁₂₋₁₈ primers (0.5 μ g/ μ L)
 - x μL Nuclease-free dH₂O for a final volume of 12 μL
- Mix and incubate at 70° C for 10 minutes. Place tube on ice immediately.
- Briefly centrifuge the tube, then add the following to each tube:
 - 4 μL 5X Reverse Transcription Buffer
 - $2 \mu L 0.1M DTT$
 - 1 μL 10 mM dNTPs
- 6. Mix and incubate at room temperature (~25° C) for 10 minutes.
- 7. Incubate at 42° C for 2 minutes.
- 8. Add 1 μL RNase H Reverse Transcriptase (200 units/μL). Mix by pipetting.
- Incubate at 42° C for 50 minutes.
- 10. Incubate at 70° C for 15 minutes.
- 11. Dilute reactions 5-fold by adding 80 μL of nuclease-free dH₂O.
- 12. Store at ≤ -20° C in a manual defrost freezer.

Genbank is a registered trademark of the United States Department of Health and Human Services. *PCR is covered by US Patent Nos. 4683195 and 4683202 assigned to Hoffmann-La Roche.

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