

Oligo(dT)₁₈ primer mix

Catalogue number:

MB12801, 100 μL (27 μg)

Primer sequence:

5'- d (TTT TTT TTT TTT TTT)-3'

Description

Oligo (dT)₁₈ primer is a synthetic singlestranded 18-mer oligonucleotide with 5'and 3'- ends. Oligo (dT)₁₈ is suitable for use as a primer for first-strand cDNA synthesis with a reverse transcriptase. The primer hybridizes to the poly(A) tail found at the 3'-end of most eukaryotic mRNAs, making them more specific than random hexamers, as they will not transcribe rRNA.

Oligo (dT)₁₈ primer is frequently employed when cDNA is used for cloning, cDNA library construction and qPCR.

Concentration

100 μL at 270 ng/μL (50 μM)

Features

- Ultra-pure grade
- DNase/RNase free

Storage conditions

Oligo (dT)₁₈ primer mix should be stored at -20 °C, in a constant temperature freezer. Avoid multiple freeze/thaw cycles.

Protocol

Use 1 μ L in a 20 μ L reverse transcription (RT) reaction.

Note: The sensitivity of cDNA synthesis may be improved when using a mixture of oligo(dT)₁₈ and random hexamer primers.

Quality control assays

Nucleases assays

To test for DNase contamination, 0.2-0.3 μg of pNZY28 plasmid DNA are incubated with 1 μL of Oligo (dT)₁₈ primer for 14-16 hours at 37 °C. To test for RNase contamination, 1 μg of RNA is incubated with 1 μL of Oligo (dT)₁₈ primer for 1 hour at 37 °C. Following incubation, the nucleic acids are visualized on a GreenSafestained agarose gel. There must be no visible nicking or cutting of the nucleic acids. Similar tests are performed with the reaction buffer.

Functional assay

Oligo $(dT)_{18}$ primer mix is tested for performance in a RT-qPCR experiment using a 10-fold serial dilution of total RNA from mouse liver (1 µg to 0.1 ng). After the first-strand cDNA synthesis with NZY Reverse Transcriptase, the resultant cDNA is then used as template in a quantitative real-time PCR assay using specific primers to amplify the mouse GAPDH gene.

Related products

Product Name	Cat. No.	
NZY Reverse Transcriptase	MB124	
Random hexamer mix	MB12901	
Water for Molecular Biology	MB11101	
dNTPs NZYSet	MB08701	

V1902

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Assay	Result
Nucleases Assay	Pass
Functional Assay	Pass

Approved by:



Patrícia Ponte Senior Manager, Quality Systems

For research use only.

