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Primer-mix-oligo(dT)/N9

Catalog number: OLE22-07-010, OLE22-07-050

Product Description

Ready-to-use, optimized mixture of random 9-mer (nona) and oligo(dT)18 primers. This mixture provides optimal and uniform coverage of the RNA sample, for a wide range of concentrations of RNA templates. In contrast to the traditional use of random primers for cDNA production, this method improves coverage of the 3' end of the RNA template.

Random nonanucleotides with a random composition (d(N)9 [N=A,C,G,T]) are distributed with equal probability over all RNA sequences, ensuring their representation in cDNA. The increased length of the random primer compared to the hexaprimer may increase the efficiency of reverse transcription with thermostable reverseases.

Oligo d(T)18 primers make it possible to increase the representation of mRNA in the cDNA pool by binding to the 3' poly(A) tail and make it possible to obtain the longest continuous cDNA.

The non-specific primer mix Primer-mix-oligo(dT)/N9 is optimized to bind throughout the entire sequence of the RNA sample, including both mRNA and non-polyadenylated RNA (such as ribosomal RNA). This mixture of primers makes it possible to obtain a pool of, on average, relatively small cDNA molecules, allowing efficient and correct analysis of the ratios of various RNAs using real-time PCR.

Packing size

Catalog number	Volume, μ l	C, μ M	Quantity, mcg
OLE22-07-010	100	50	10
OLE22-07-050	500	50	50

Composition of the mixture Primer mix:

Clear solution with a total primer concentration of 50 μ M in TE buffer.

Application area:

- Synthesis of the first strand cDNA
- Formation of cDNA libraries
- Analysis of changes in gene expression
- DNA labeling

Storage conditions: in a place protected from light: at +25 °C - 7 days; at +4 °C - 6 months; at -20°C - 2 years.

Transportation conditions: at 0 - +4 °C, transportation at room temperature up to 10 days is allowed.