Random Hexamer Primers

Shipping: On Dry/Blue Ice

Catalog numbers

BIO-38028: 25μg (500μL)

Batch No.: See vial



Store at -20 °C

Storage and stability:

Random Hexamer Primers is shipped on dry/blue ice. All kit components should be stored at -20 °C upon receipt. Excessive freeze/thawing is not recommended.

Expiry:

When stored under the recommended conditions and handled correctly, full activity of the kit is retained until the expiry date on the outer box label.

Primer sequence:

5' - d (NNNNNN) - 3' N = G, A, T or C

Concentration:

500 μL at 50ng/μL

Quality Control:

Random Hexamer Primers are extensively tested for activity and absence of contamination.

Safety Precautions:

Please refer to the material safety data sheet for further information.

Notes:

For research use only.

Description

Random Hexamer Primers consist of a mixture of oligonucleotides representing all possible hexamer sequences. Random Hexamer Primers are commonly used for priming single-stranded DNA or RNA for extension by DNA polymerases or reverse transcriptases.

During cDNA generation, random priming gives random coverage to all regions of the RNA to generate a cDNA pool containing various lengths of cDNA. Random priming is incapable of distinguishing between mRNA and other RNA species present in the reaction.

Applications

- cDNA synthesis using a Reverse Transcriptase with RNA templates
- DNA synthesis using Klenow fragment with DNA templates
- DNA probe synthesis for use in Southern, Northern, and in situ hybridization applications

Directions:

Use 1-5 μ L in a 20 μ L reverse transcription reaction (50-250 ng/reaction).

Associated Products

Product Name	Pack Size	Catalog No.
Tetro Reverse Transcriptase	10,000 Units	BIO-65050
MyTaq [™] One-Step RT-PCR Kit	25 Lanes	BIO-65033
dNTP Set	10,000 Units	BIO-39025

Citations:

- 1. Konrad, A., et al. J. Virol. 83(6), 2563-2574 (2009).
- 2. Dagai, L., et al. Neurochem. Res. 34(5), 867-875 (2009).
- 3. Sloboda, D.M., et al. J. Endocrinol. 197, 213-220 (2008).
- Linda R. & Sheldrick, E.L.R., et al. Biochem. J. 406(1), 175–183 (2007).
- 5. Elinson, N., et al. Br. J. Nut. 96(4), 691-696 (2006).
- 6. Landau, Z., et al. Apoptosis 11(5), 717-724 (2006).

Bioline Reagents Ltd UNITED KINGDOM

Tel: +44 (0)20 8830 5300 Fax: +44 (0)20 8452 2822 Bioline USA Inc.

Tel: +1 508 880 8990 Fax: +1 508 880 8993 Bioline GmbH GERMANY

Tel: +49 (0)33 7168 1229 Fax: +49 (0)33 7168 1244 Bioline (Aust) Pty. Ltd AUSTRALIA

Tel: +61 (0)2 9209 4180 Fax: +61 (0)2 9209 4763