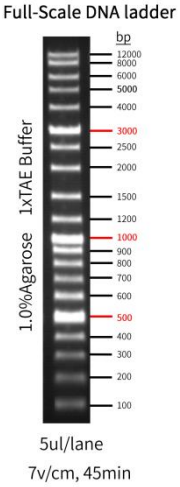
12000bp DNA Marker, 100-12000bp

Product description

This product contains a DNA molecular weight marker consisting of 20 linear double-stranded DNA fragments at the following sizes: 12,000 bp; 8,000 bp; 6,000 bp; 5,000 bp; 4,000 bp; 3,000 bp; 2,500 bp; 2,000 bp; 1,500 bp; 1,200 bp; 1,000 bp; 900 bp; 800 bp; 700 bp; 600 bp; 500 bp; 400 bp; 300bp; 200 bp; 100 bp. The reference bands are 500 bp, 1,000 bp and 1,500 bp, with a concentration of 60 ng/5 μL, while all other bands are at 20 ng/5 μL.

The marker is supplied in 1×DNA Loading Buffer and is designed for agarose gel electrophoresis analysis of DNA bands. It is not recommended for polyacrylamide gel electrophoresis (PAGE).



Specifications

Product No.	N132120S	N132120M
Size	100 T	10×100 T

Components

Component No.	Component Name	N132120S	N132120M
N132120-A	12 kb DNA Marker	500 μL	10×500 μL
N132120-B	5×DNA Loading Buffer	1 mL	10×1 mL

Shipping and Storage

Store at room temperatures or at 2°C to 8°C, valid for half a year.

Stor at -25°C to -15°C, valid for one year. Avoid repeated freeze-thaw cycles.

Notes

1. For optimal electrophoresis results:

1) Ensure thorough mixing of the product before use.

2) Replace the electrophoresis buffer promptly and use freshly prepared gels.

2. If smearing, blurred bands, or distortion occurs during electrophoresis: Dilute the sample with water before loading. For standard-width gel wells, dilute the sample 5-fold with water and load 8-10 μL.

3. When switching to a new stain or using agarose gels containing different stains:

1) Thoroughly clean the electrophoresis tank to avoid cross-contamination.

2) Replace with fresh electrophoresis buffer after cleaning.

4. For your safety and health, please wear a lab coat and disposable gloves.

5. For research use only!

Instructions

1. Load 5 μL of the DNA ladder. For wide wells, increase the loading volume appropriately.

2. Use 0.7-1.2% agarose gels with a voltage of 4–10 V/cm in 0.5×TBE buffer or 1×TAE buffer.

3. Visualize DNA bands under UV light if stain the gel using solution-based staining methods with ethidium bromide (EB) or Arcegen Nucleic Acid Stain (Cat# N132109, non-toxic and UV-compatible).