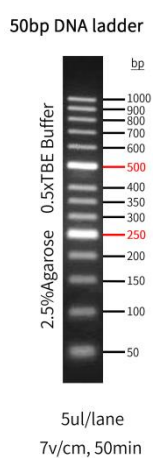


50bp DNA Ladder, 50-1000bp

Product description

This product contains a DNA molecular weight marker consisting of 14 linear double-stranded DNA fragments at the following sizes: 50 bp; 100 bp; 150 bp; 200 bp; 250 bp; 300 bp; 350 bp; 400 bp; 500 bp; 600 bp; 700 bp; 800 bp; 900 bp; 1,000 bp. The reference bands are 250 bp and 500 bp, with a concentration of 100 ng/5 μ L, while all other bands are at 40 ng/5 μ L.

The marker is supplied in 1 \times 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.	N132111S	N132111M
Size	100 T	10 \times 100 T

Components

Component No.	Component Name	N132111S	N132111M
N132111-A	50 bp DNA Ladder	500 μ L	10 \times 500 μ L
N132111-B	5 \times DNA Loading Buffer	1 mL	10 \times 1 mL

Shipping and Storage

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

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

Notes

- 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 1.5-2.0% agarose gels with a voltage of 4–10 V/cm in 0.5 \times TBE buffer or 1 \times 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).