

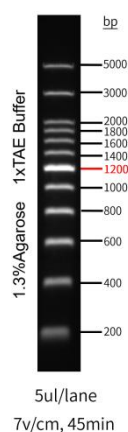
## 200bp DNA Ladder, 200-5000bp

### Product description

This product contains a DNA molecular weight marker consisting of 12 linear double-stranded DNA fragments at the following sizes: 200 bp; 400 bp; 600 bp; 800 bp; 1,000 bp; 1,200 bp; 1,400 bp; 1,600 bp; 1,800 bp; 2,000 bp; 3,000 bp; 5,000 bp. The reference band is 1,200 bp, with a concentration of 100 ng/5  $\mu$ L, while all other bands are at 40 ng/5  $\mu$ 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).

200bp DNA ladder



### Specifications

Product No.	N132114S	N132114M
Size	100 T	10 $\times$ 100 T

### Components

Component No.	Component Name	N132114S	N132114M
N132114-A	200 bp DNA Ladder	500 $\mu$ L	10 $\times$ 500 $\mu$ L
N132114-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  $\mu\text{L}$ .
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  $\mu\text{L}$  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).