

## 100 bp Plus DNA Ladder

|            |        |                   |
|------------|--------|-------------------|
| Code No. : | NG101S | 250 µl×5 (250 T)  |
|            | NG101M | 250 µl×10 (500 T) |

### Introduction :

This product is a ready-to-use DNA molecular weight marker pre-mixed with 1x loading buffer, consisting of 14 linear double-stranded DNA. Suitable for the estimation of size and rough quantification of double-stranded DNA sizes ranging from 100 bp to 5 kb.

The 14 bands of this product are 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000, 1500, 2000, 3000 and 5000 bp, with concentrations of 50 ng, 40ng, 30ng, 40ng, 100ng, 60ng, 70ng, 80ng, 90ng, 100ng, 50ng, 50ng, 50ng, when loading 5 µl.

### Storage buffer:

10 mM TrisCl (pH 8.4) , 10 mM EDTA , 0.02 % bromophenol blue , 5 % glycerol.

### Storage :

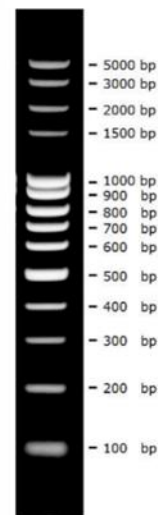
Store at -20 °C for up to a years and avoid repeated freezing and thawing. RT for 2-3 months.

### Usage:

1. Recommended for agarose gel electrophoresis at 1.0~2.0 %; not recommended for polyacrylamide gel electrophoresis;
2. Electrophoresis buffer can be 1×TAE or 0.5~1×TBE; voltage 6~8 V/cm gel length, electrophoresis time 30~60 minutes; voltage 20~30 V/cm gel length, electrophoresis time 10~15 minutes;
3. Using a sterile pipette tip, aspirate 5~10 µl of this product and add it to the loading well according to the wells;
4. Start electrophoresis after adding the DNA sample to be tested;
5. After electrophoresis, stain with ethidium bromide (EB) or another DNA dyes and observe the bands.

### Precautions :

1. Testing indicates that the band pattern remains unchanged when stored at room temperature for one month; however, low-temperature storage is recommended to prevent band degradation used by nuclease contamination due to improper handling.
2. Do not heat before use.
3. Replace the electrophoresis buffer promptly when its buffering capacity decreases to avoid affecting the resolution.



Load 5 µl onto a 2% TAE agarose gel, EB staining