

## 1 kb Plus DNA Ladder

Cat. no. 4992800/4992801

Storage: -30~-15°C for 2 years. For frequently use, it can be stored at 2-8°C for 3 months.

Concentration: About 0.1 mg DNA/ml

Product size

4992800	300 $\mu$ l (50 lanes)
4992801	4 $\times$ 300 $\mu$ l (200 lanes)

TIANGEN BIOTECH (BEIJING) CO., LTD.

[HTTP://WWW.TIANGEN.COM/EN](http://www.tiangen.com/en)

The product is used for research only, neither intended for the diagnosis, or treatment of a disease, nor for the food, or cosmetics etc.

### Description

The 1 kb Plus DNA Ladder consists of twelve double-stranded DNA bands that are suitable as molecular weight standards for agarose gel electrophoresis.

Since this product is premixed with 1 $\times$  Loading Buffer, it is convenient to load 3~6  $\mu$ l of this product to agarose gel directly.

The ladder is composed of twelve individual DNA fragments (in base pairs): 10000, 8000, 5000, 2000, 1600, 1000, 7000, 500, 400, 300, 200 and 100. It contains one intense band (1000 bp) for easy orientation. To load 6  $\mu$ l of the product will provide 50 ng per DNA fragment with one intense fragment of 100 ng.

### Buffer Contents

10 mM Tris-HCl (pH 8.4)  
 10 mM EDTA  
 0.02% Bromophenol Blue  
 5% Glycerol

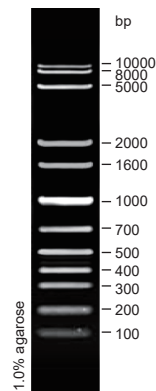
### Protocol

1. Directly load 3~6  $\mu$ l of this product to the agarose gel (load 1  $\mu$ l product per 1 mm gel lane. The loading volume can be increased appropriately for wide lanes).
2. Electrophoresis condition: 1.0% agarose gel, 4~10 v/cm voltage.
3. DNA marker can be visualized using ethidium bromide under UV light.

### Recommendations

1. Directly use, do not require heating.
2. For ideal results, please use new agarose gel and change electrophoresis buffer in time.

### 1 kb Plus DNA Ladder



6  $\mu$ l product,  
 10 cm gel length,  
 6 v/cm voltage,  
 0.5  $\times$  TBE Buffer