

# 1 kb DNA Ladder



**Catalog :** NP100059

**Size:** 500  $\mu$ L

## Description

The 1 kb DNA Ladder is a ready-to-use DNA ladder, which is pre-mixed with loading dye for direct gel loading. This ladder consists of 9 individual DNA fragments: 1000, 2000, 3000, 4000, **5000**, 6000, 8000, 10000 bp, derived from a mixture of PCR products and specifically digested plasmid DNA. The 5000bp fragment is present at increased intensity for easy identification (concentration of 150ng/5 $\mu$ L); all other fragments appear with equal intensity on the gel (concentration of 50ng/5 $\mu$ L).

## Storage

4°C for 6 months; -20°C for 1 year

## Notice

1. Ready-to-use: premixed with loading dye for direct loading
2. Quick reference: 5000 bp (brighter than the other fragments)
3. Loading Volume: 2-5  $\mu$ L / lane
4. Please change the electrophoresis buffer in time, and use freshly prepared agarose gel for electrophoresis to ensure good separation results

## Guide for Molecular Weight

Take 5  $\mu$ L DNA ladder in 0.8% agarose gel, use a voltage of 8 V/cm, 1 $\times$  TAE Buffer for 40 minutes, and the results are as follows:

Band	Agarose gel
	10000
2	8000
3	7000
	6000
4	5000
	4000
5	3000
	2000
6	1000
7	
8	
9	

An agarose gel electrophoresis image showing a vertical lane with nine distinct horizontal bands of DNA. The bands are arranged from top to bottom, corresponding to the molecular weights listed in the table. The 5000 bp band is notably brighter than the others. The gel is labeled with 'bp' at the top, and numerical values (10000, 8000, 7000, 6000, 5000, 4000, 3000, 2000, 1000) are listed to the left of the bands. Horizontal lines are drawn next to the 10000 and 1000 bp markers.