

100 bp DNA Ladder



Catalog: NP100058

Size: 500 μ L

Description

The 100 bp DNA Ladder is a ready-to-use DNA ladder, which is pre-mixed with loading dye for direct gel loading. This ladder consists of 11 individual DNA fragments: 100, 200, 300, 400, **500**, 600, 700, 800, 900, 1000, 1500 bp, derived from a mixture of PCR products and specifically digested plasmid DNA. The 500bp fragment is present at increased intensity for easy identification (concentration of 150ng/5 μ L); all other fragments appear with equal intensity on the gel (concentration of 50ng/5 μ L).

Storage

4°C for 6 months; -20°C for 1 year


Notice

1. Ready-to-use: pre-mixed with loading dye for direct loading
2. Quick reference: 500 bp (brighter than the other fragments)
3. Loading Volume: 2-5 μ 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 μ L DNA ladder in 2% agarose gel, use a voltage of 8 V/cm, 1 \times TAE Buffer for 60 minutes, and the results are as follows:

Band	Agarose gel	bp
		1500
2		1000
3		900
		800
		800
5		700
		600
6		600
		500
7		500
		400
8		400
		300
9		300
		200
10		200
		100
11		100

An agarose gel electrophoresis image showing 11 distinct horizontal bands of DNA. The bands are arranged vertically from top to bottom, corresponding to the molecular weights listed in the table. The 500 bp band (band 7) is notably brighter than the other bands.