

## 100-bp Plus DNA Ladder

**Cat. no.** TT-M100PS

**Storage:** 4 °C for 2 years (for longer periods, store at -20 °C)

**Product Size:** 500 uL

## Introduction

The ladder contains 13 double-stranded DNA bands that are designed for the sizing and approximate quantification of a wide range of molecular weight standards on agarose gels. The product is ready to use and premixed with 1× loading buffer for the direct loading of 3–5-μL samples in gel electrophoresis. The ladder is composed of 13 purified DNA fragments (in base pairs) as follows: 3,000, 2,000, 1,500, 1,000, 900, 800, 700, 600, 500 (intense signal for easy orientation), 400, 300, 200, and 100.

### Buffer Contents:

10 mM Tris-HCl (pH 8.4)

10 mM EDTA

0.002% xylene cyanole FF

0.001% bromophenol blue

10% glycerol

## Protocol

1. Load 3–5 μL of the product directly on an agarose gel (load 1 μL/mm gel wall width).
2. Electrophoresis settings: 2%–3% agarose gel, 4–10 V/cm voltage.
3. Visualize the DNA marker by staining with ethidium bromide under UV light.

### Recommendations

1. Do not heat before loading.
2. Concentration: 0.1 μg DNA/μL.

This product is for research only. Not for diagnostic or clinical use.

