

## 100 bp DNA Ladder

<http://cn.lumiprobe.com/p/100-bp-dna-ladder>

The 100 bp DNA Ladder is intended for use as a standard to determine the length of double-stranded DNA molecules ranging from 100 to 1000 base pairs (bp) by agarose gel electrophoresis. It allows an approximate estimate of the mass of the DNA sample loaded into the gel by comparing the brightness of the analyzed sample band with that of a marker band of the same length.

The 100 bp DNA Ladder is ready-to-use and is a mixture of ten double-stranded linear DNA fragments of 100, 200, 300, 400, 500, 600, 700, 800, 900, and 1000 bp, in gel-loading buffer. The 500 bp fragment is double-concentrated to facilitate its identification after gel electrophoresis.

The DNA length marker is supplied in a [loading buffer](#) containing two dyes (Bromophenol Blue and Xylene Cyanol FF) to monitor the mobility of DNA fragments in the gel, EDTA as an inhibitor of metal-dependent nucleases, and glycerol as a weighting agent. The 100 bp DNA length marker can be visualized in an agarose gel by staining with intercalating dyes (e.g., [GelRed](#), [dsGreen](#), [dsGold](#), or ethidium bromide).

### Directions for use:

- This DNA length marker is not recommended for use in polyacrylamide gel electrophoresis.
- It is recommended to add 2-5  $\mu$ L of the DNA length marker to a 5-mm lane of an agarose gel (agarose concentration: 1-2%).

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