

## 50 base pair DNA Ladder

Catalog # L-104

Lot: 1

Quantity Supplied: 300 ul at 1 ul per loading (300 loadings)

Storage Buffer: 10 mM Tris-HCl, 1 mM EDTA, pH 8.0 (TE buffer)

Storage: -20 °C or below.

Repeated freeze-thaw cycles have no effect on this product. Vortex gently after thawing.

**Description:** This ladder consists of 15+ blunt end DNA bands from 50 bp to 750 bp in 50 bp increments. The 200 bp band and the 1,000 bp bands are higher intensity to facilitate band identification. All bands can be easily resolved using 2.0% agarose gel electrophoresis.

**Recommended Use:** Make a Working Solution of the ladder in the tube labeled "Working Solution" as follows:

200 ul 5X sample loading buffer

750 ul TE buffer

50 ul ladder stock solution

A common 5X sample loading buffer is 40 mM Tris-OAc, 1 mM EDTA, pH 8.0, 0.05% bromophenol blue, 50% glycerol. Load 20 ul of the Working Solution on the gel. (This is equivalent to loading 1 ul of the Stock Solution on the gel). Bands are easily visible by ethidium bromide staining. The Working Solution may be stored at 4 °C for a few months. For long term storage, store the Working Solution at -20 °C or below. Store the Stock Solution at -20 °C or below.

**Tips for Best Results:**

(1) 2% agarose in TAE buffer or 1.8% agarose in TBE buffer is recommended for best resolution of fragments from 50 bp to 750 bp.

(2) Bands above 750 bp can be resolved, but longer gel run lengths may be required, such as 20 cm, and may require loading a larger amount of the stock solution.

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1% agarose gel showing 12+ bands from 500 bp to 6,000 bp.