

500 base pair DNA Ladder

Catalog # L-103

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 12+ blunt end DNA bands from 500 bp to 6,000 bp in 500 bp increments. The 2 kb band is higher intensity to facilitate band identification. All bands can be easily resolved using 0.8% - 1.0% 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) 1% agarose is recommended for best resolution of fragments from 500 bp to 6,000 bp.

(2) Bands above 6,000 bp can be resolved, but require longer gel run lengths, 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.