1 Kilobase DNA Ladder

Catalog # L-201
Lot: 4
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)
Store at -20 °C or below.
Repeated freeze-thaw cycles have no effect on this product. Vortex gently after thawing.

Description: This ladder consists of ten blunt end DNA bands at exactly 1, 2, 3, 4, 5, 6, 7, 8, 9, and 10 kilobases. All bands (except 5 kb) are supplied at 25 ng/ul, providing uniform staining intensity with ethidium bromide. The 5 kb band is supplied at triple the concentration, 75 ng/ul, to provide an easy marker for band identification. All bands can be resolved using 0.6% - 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 can be 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) For best resolution of 5 - 10 kb fragments, use 0.6% agarose. For best resolution of 1 - 5 kb fragments, use 1% agarose. For general use, use 0.8% - 1.0% agarose.
(2) Fill the gel well completely. A partially filled well may result in band smearing.

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1% agarose gel showing bands from 1 kilobase to 10 kilobases.