

1kb DNA Marker

(Ready-to-Use)

Catalog No.	Description	Size
DM03-01	13 bands, range from 250 bp to 10 kb, ready-to-Use	1 x 0.5 ml
DM03-02	13 bands, range from 250 bp to 10 kb, ready-to-Use	5 x 0.5 ml

Description:

Ready-to-Use DNA Ladder is a pre-mixed molecular weight marker containing bromophenol blue & xylene cyanol FF as a tracking dye.

The 1kb DNA Ladder consists of proprietary plasmids which are digested to completion with appropriate restriction enzymes to yield 13 bands suitable for use as molecular weight standards for agarose gel electrophoresis. The DNA includes fragments ranging from 250-10,000 base pairs. The 1kb and 3kb bands have increased intensity to serve as reference points. The approximate mass of DNA in each band is provided (0.5 µg a load). The overall DNA concentration is 100 µg/ml.

Effective Size Range: 250 bp – 10 kb

Recommended Load: 5 µl

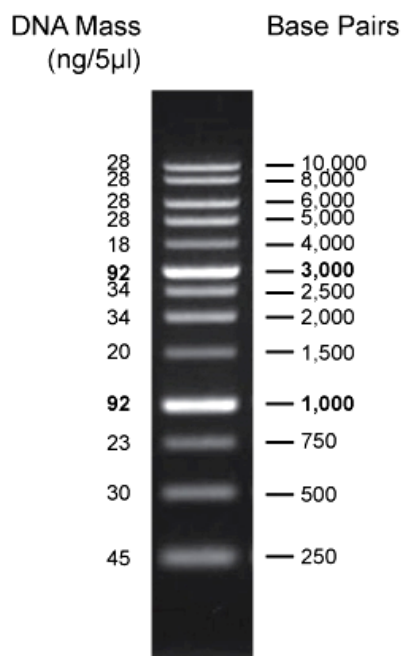
Storage Temperature: 4°C

General notes:

1. Ready-to-Use 1kb DNA Marker is stable at 25°C for at least 6 months.
2. For long term storage, store at 4°C or -20°C. If stored at -20°C, mix well after thawing.

Usage notes:

1. **Preparation of DNA:** The double-stranded DNA is digested to completion with appropriate restriction enzymes, phenol extracted and equilibrated in storage buffer.
2. We recommend loading 5 µl of Ready-to-Use 1kb DNA marker per gel lane.
3. The Ready-to-Use 1kb DNA marker is not intended for precise quantification of DNA mass but can be used for approximating the mass of DNA in comparably intense samples of similar size.



1 % TAE agarose gel

Figure: 1kb DNA marker visualized by ethidium bromide staining on a 1% agarose gel. Mass values are for 5 µl/lane.



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