





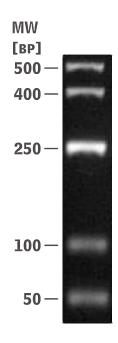
# Perfect Plus 50-500 bp DNA Ladder

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Size
100 loadings
500 loadings

## **Storage Conditions:**

Store at  $+4^{\circ}$ C. For long-term storage, store at  $-20^{\circ}$ C.



#### Ready to use DNA ladder for sizing small DNA fragments.

#### **Description:**

- → Ideal for sizing linear double-stranded DNA fragments from 50 to 500 bp.
- → Consists of 5 bands with sizes of 50, 100, 250, 400 and 500 bp, respectively.
- → The band at 500 bp is three times brighter for easy reference on agarose gels.
- → Can be 5'-end labeled with radioisotopes and T4 Polynucleotide Kinase (Cat. No. E1261) for visualization by autoradiography after a dephosphorylation step.

### Storage Buffer:

10 mM Tris-HCI (pH 8.0 at 22°C), 1 mM EDTA, dye.

#### Loading:

The recommended amount of size marker to load on a gel is 5  $\mu$ l per lane. Mix well after thawing.

#### Brief Guidelines for High Quality Gel Pictures

There is no magic about creating gel pictures in publication quality. Simply follow some guidelines:

- → Use rather large instead of small gels (distance between electrodes approx. 30 cm).
- → Use low voltage (~80-100 V for large gels, as a rule of thumb 70-75 % of the voltage used for routine electrophoresis).
- → Allow the electrophoresis to proceed slow.
- → Use fresh buffers for preparing gels. Ideally, prepare fresh buffers prior to gel electrophoresis.
- → Prepare gels with narrow, slim gel pockets.
- → Use only high quality agarose for preparation of agarose gels. Criteria for high quality agarose: White powder before melting, completely transparent after melting.
- → It is not necessary to purchase costly special purpose agarose formulations, such as "low melting" agarose.