



# Perfect Plus 50-500 bp DNA Ladder

## *Perfect Plus* 50-500 bp DNA Ladder

Cat. No.	Size
E3145-01	100 loadings
E3145-02	500 loadings

### Storage Conditions:

Store at +4°C.  
For long-term storage, store at -20°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-HCl (pH 8.0 at 22°C), 1 mM EDTA, dye.

#### Loading:

The recommended amount of size marker to load on a gel is 5 µl 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.