Perfect 100-1000 bp DNA Ladder

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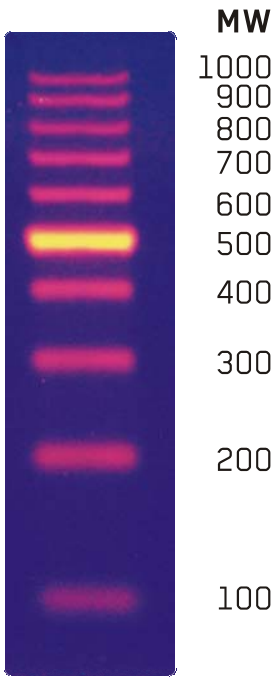
Cat. No.	Size
E3141-01	50 µg
E3141-02	250 µg

Storage Conditions:
Store at +4°C.
Long-term storage: -20°C.



DNA ladder with 100 bp increments for sizing small-to-medium DNA fragments.

Description:

- Ideal for sizing linear double-stranded DNA fragments from 100 to 1000 bp.
- Contains 10 bands with fragments of the following sizes: 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000 bp.
- 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 2 - 5 µl per lane depending on a gel type and size of well.

Concentration:

The Perfect 100-1000 bp DNA Ladder is supplied at 47.9 µg/ml in 10 mM Tris-HCl (pH 8.0), 1 mM EDTA.

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.

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