MANUFACTURED BY EURx

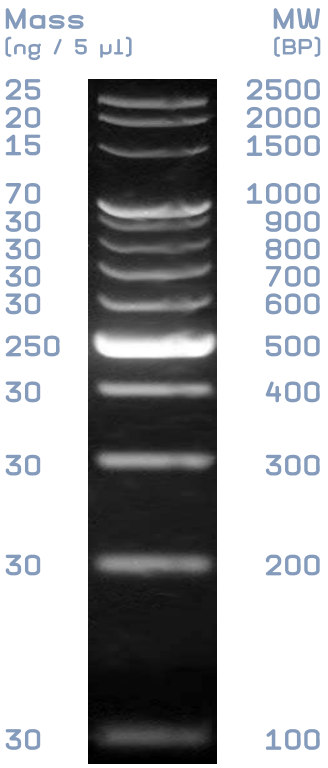
roboklon

# Perfect 100 bp DNA Ladder

*Perfect 100 bp DNA Ladder*

| Cat. No. | Size |
|---|---|
| E3134-01 | 50 µg |
| E3134-02 | 250 µg |

**Storage Conditions:**
Short term: Store at +4°C
Long term: Store at -20°C




Total DNA: 125 ug/ml
5 ul load = 625 ng DNA

**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 2500 bp.
- Contains 13 bands with fragments of the following sizes: 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000, 1500, 2000 and 2500 bp, respectively.
- For easy reference, bands at 500 and 1000 bp are brighter than other bands in the ladder.
- Can be 5'-end labeled with radioisotopes and T4 Polynucleotide Kinase for visualization by autoradiography after a dephosphorylation step.
- Supplied in ready-to-load buffers containing tracking dyes.
- No preparation before loading required.

**Storage Buffer:**

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

**Loading:**

The recommended amount of size marker to load on a gel is 0.6-1.2 µg per lane (approx. 2 – 5 µl) depending on gel type and size of well. Mix well after thawing.

**Concentration:**

The Perfect 100 bp DNA Ladder is supplied at 125 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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