Perfect Plus
1 kb DNA Ladder

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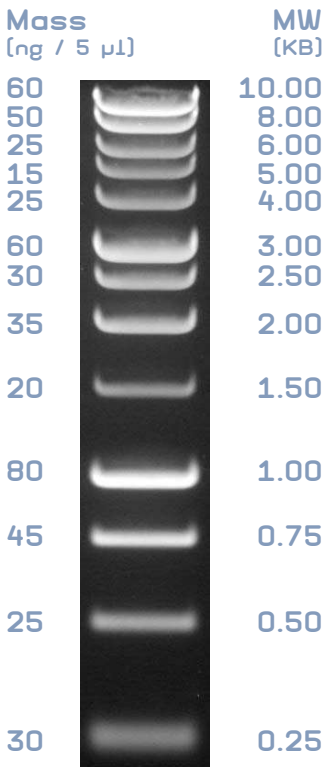
Cat. No.	Size
E3131-01	100 µg
E3131-02	500 µg

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



Total DNA: 100 ug/ml
5 ul load = 500 ng DNA

DNA ladder with 0.25-1 kb increments for sizing medium-to-large DNA fragments.

Description:

- Ideal for sizing linear double-stranded DNA fragments from 0.5 to 10.0 kb.
- Contains 13 bands with fragments of the following sizes: 0.25, 0.5, 0.75, 1.0, 1.5, 2.0, 2.5, 3.0, 4.0, 5.0, 6.0, 8.0, and 10.0 kb.
- Bands at 1.0 and 3.0 kb are three times brighter for easy reference on agarose gels.

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 0.2-1.0 µg per lane (5–10 µl) depending on gel type and size of well.

Concentration:

The Perfect Plus 1 kb DNA Ladder is supplied at 100 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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