



SMOBIO

Small Bio, Smart Tool

www.smobio.com

Product Information

ExcelBand™ series

**1 KB (0.25-10 kb) DNA Ladder,
Ready to Use**

DM3100 50 µg / 500 µl

Size: 500 µl

5 µl per well for 100 gel applications

Storage

Room temperature for 6 months

4°C for 12 months

-20°C for 36 months

lubio
science

Your distributor in Switzerland

LubioScience GmbH
Baumackerstrasse 24
8050 Zürich

Phone 041 417 02 80

Fax 041 417 02 89

info@lubio.ch

www.lubio.ch

Description

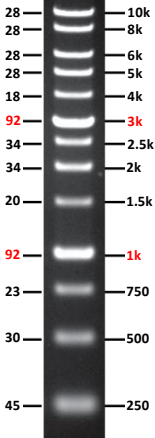
The DM3100 ExcelBand™ 1 KB (0.25-10 kb) DNA Ladder is a ready-to-use DNA ladder, which is pre-mixed with loading dye for direct gel loading. The DNA ladder DM3100 is composed of 13 individual DNA fragments: 10k, 8k, 6k, 5k, 4k, **3k**, 2.5k, 2k, 1.5k, **1k**, 750, 500, and 250 bp derived from a mixture of PCR products and specifically digested plasmid DNA. This product contains two enhanced bands (3 kb and 1 kb) for easy reference. In addition, two tracking dyes, Xylene cyanol FF and Bromophenol blue which mimic the migration of 4,000 bp and 500 bp dsDNA during electrophoresis are also added for real time monitoring.

Buffering

10 mM Tris-HCl (pH 8.0), 10 mM Na-EDTA, 0.005% Bromophenol blue, 0.005% Xylene cyanol FF and 10% Glycerol.

DM3100

DNA Mass (ng/5 μ l) Base Pairs (bp)



1% Agarose Gel

0.5x TAE Buffer

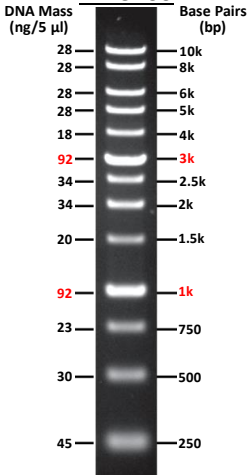
Note: This DNA Ladder was not designed for precise quantification of DNA mass, but can be used for approximating the mass of DNA by intensity comparison.



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ExcelBand™ 1 KB (0.25-10 kb) DNA Ladder

DM3100



1% Agarose Gel

0.5x TAE Buffer



The ladder is supplied with the gel loading buffer and is ready to use. Do not heat or dilute before loading.

Quality Control

1. 13 defined bands are observed during electrophoresis in agarose gel.
2. No nuclease activity is detected by a direct nuclease activity assay.

Other information

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Caution: Not intended for human or animal diagnostic or therapeutic uses.