

## M100-3000 DNA Ladder

Components	MR17 50-100 applications	MR171 50-100 applications
<b>M100-3000</b> DNA Ladder	500 µl	500 µl (ready-to-use)
<b>6x GREEN</b> DNA Loading Buffer	500 µl	500 µl

Additional information	
<p><b>Storage buffer</b> 10 mM Tris-HCl (pH 7.6), 1 mM EDTA</p> <p><b>6x GREEN DNA Loading Buffer</b> 20 mM Tris-HCl (pH 7.6), 60 mM EDTA, 0.03% xylene cyanol FF, 0.15% orange G, 15% Ficoll® 400</p> <p><b>Shipping conditions</b> Shipping at room temperature</p>	<p><b>Storage conditions</b> Keep at +4°C or room temperature for short-term or at -20°C for long-term storage.</p> <p><b>Quality control</b> The DNA ladders have been tested in various kinds of agarose and polyacrylamide gels. The absence of nucleases has been confirmed by the relevant QC procedures.</p>

 For research use only

Date of purchase

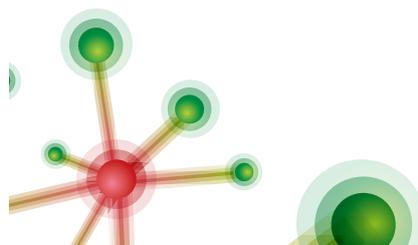
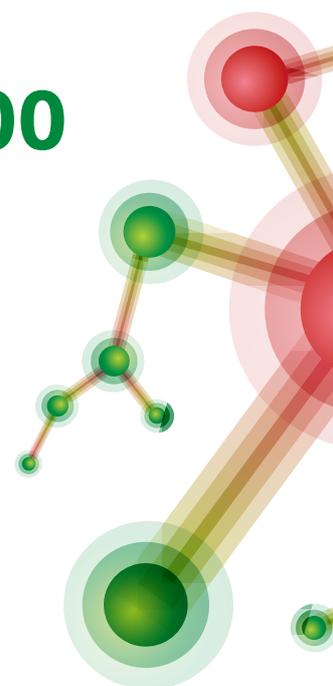
**Warranty**  
12 months from the date of purchase

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info@dnagdansk.com | www.dnagdansk.com



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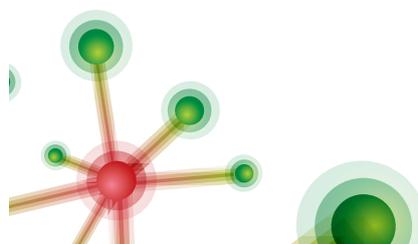
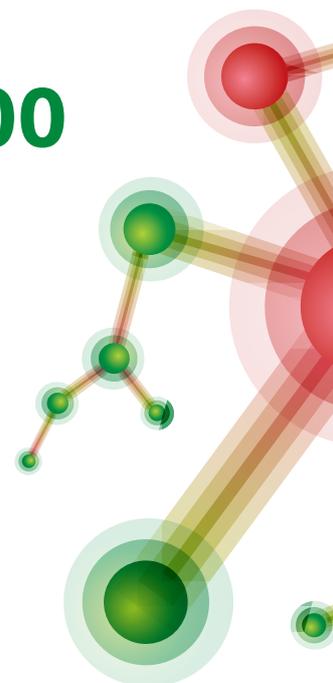
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## DNA Ladder



## M100-3000 DNA Ladder

The **M100-3000** molecular weight DNA ladder is designed for determining the size of PCR products and dsDNA fragments in the 100-3000 bp range. The **M100-3000 DNA Ladder** is a mixture of specially selected, purified blunt-ended PCR products. The DNA Ladder gives a clear band pattern, with two bands of increased intensity employed as reference points. A DNA loading buffer (**6x GREEN**) is provided with each DNA ladder. The loading buffer contains Ficoll®400, which facilitates rapid sinking to the bottom of the well in the agarose or polyacrylamide gel. The solution protects DNA thanks to the presence of EDTA, which inactivates nucleases and other enzymes by binding the divalent metal ions crucial to their activity. The **6x GREEN** solution contains two different dyes which migrate in the electrophoretic field differently from the standard size PCR products, ensuring that they do not hinder the analysis by image obscuration. The orange G dye corresponds to 50 bp and xylene cyanol FF to 4000 bp PCR products in a 1% agarose gel.

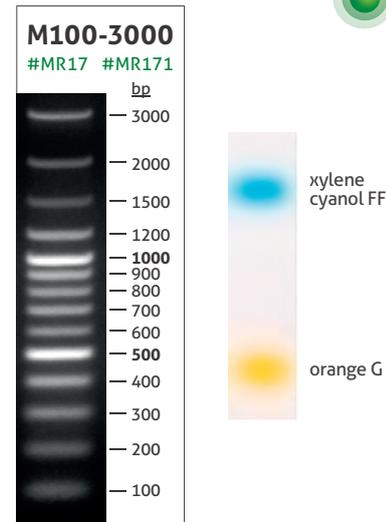
The **M100-3000 DNA Ladder** is also supplied in a ready-to-use version pre-mixed with **6x GREEN** DNA loading buffer.

### Features and advantages

- Allows precise determination of short as well as relatively large DNA fragments
- Bands at 500 bp and 1000 bp have a higher intensity to allow easy identification
- Sharp bands are obtained after electrophoresis
- Suitable for gels stained with ethidium bromide, SYBR Green or other stain for DNA visualization
- Ready-to-use: direct gel loading

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## M100-3000 DNA Ladder



DNA fragment sizes (bp)  
3000, 2000, 1500, 1200, 1000, 900, 800, 700, 600, 500, 400, 300, 200, 100

### Usage

- For the best results, apply approx. 10 µl of the DNA ladder per well.
- Mix 1 volume of DNA loading dye with 5 volumes of analyzed DNA and/or DNA ladder before application.

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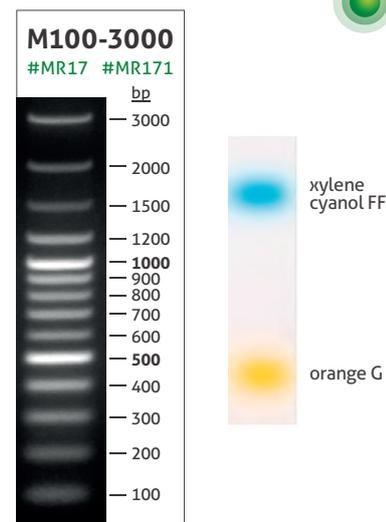
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