

M100-500 DNA Ladder

Components	MR71 50-100 applications	MR75 50-100 applications
M100-500 DNA Ladder	500 µl	500 µl (ready-to-use)
6x GREEN DNA Loading Buffer	500 µl	500 µl

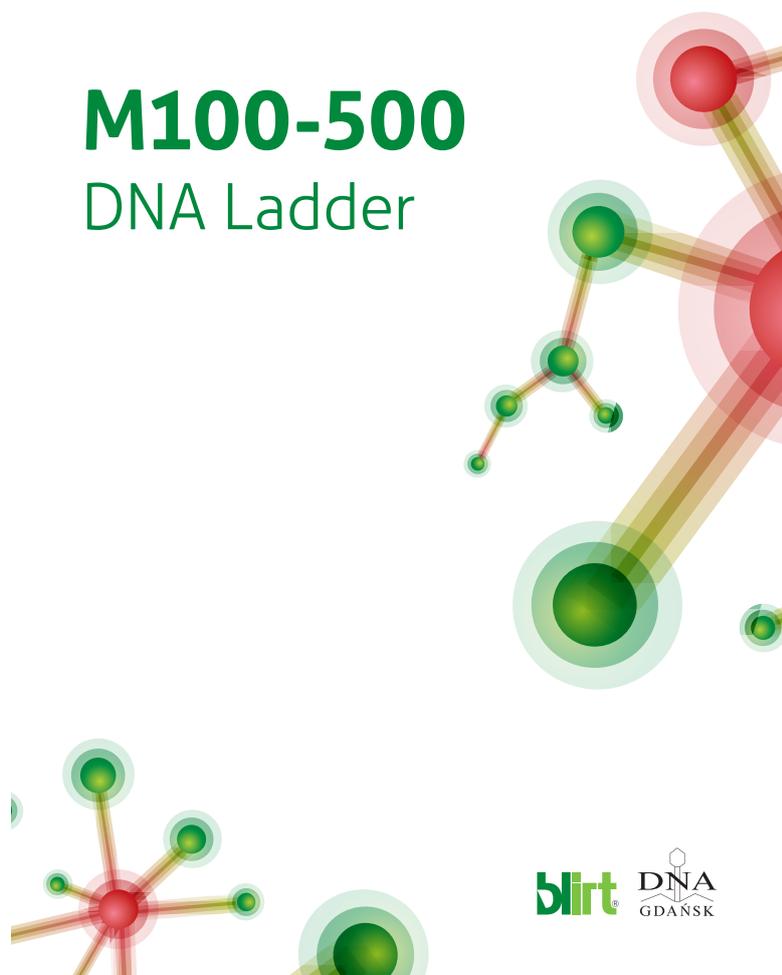
Additional information	
<p>Storage buffer 10 mM Tris-HCl (pH 7.6), 1 mM EDTA</p> <p>6x GREEN DNA Loading Buffer 20 mM Tris-HCl (pH 7.6), 60 mM EDTA, 0.03% xylene cyanol FF, 0.15% orange G, 15% Ficoll® 400</p> <p>Shipping conditions Shipping at room temperature</p>	<p>Storage conditions Keep at +4°C or room temperature for short-term or at -20°C for long-term storage.</p> <p>Quality control 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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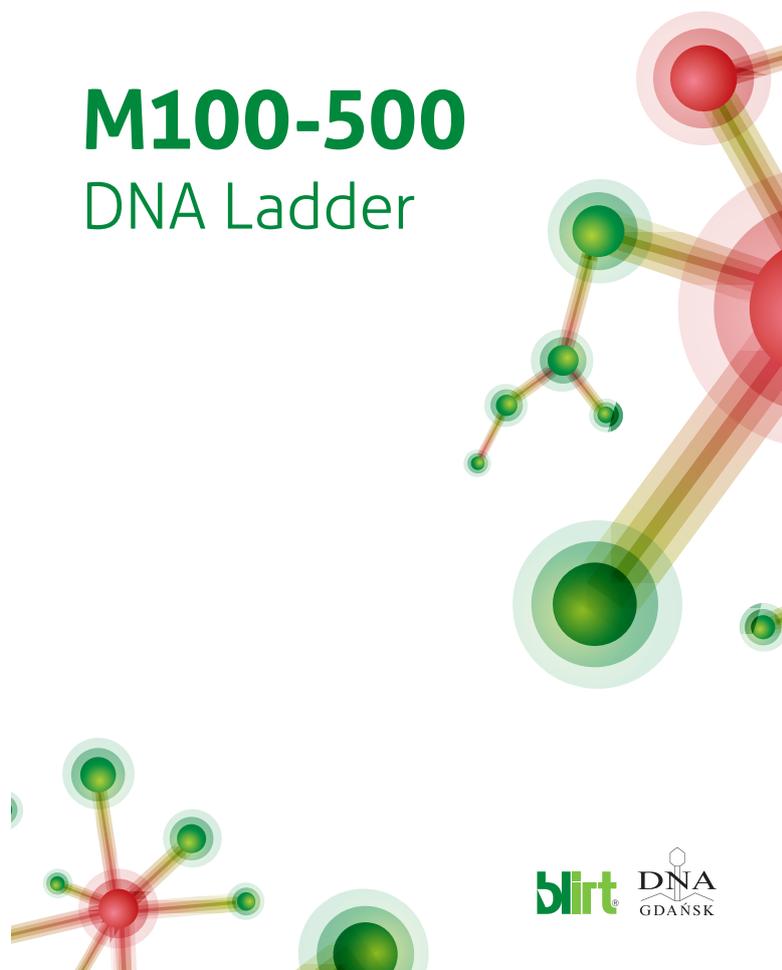
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M100-500 DNA Ladder

The **M100-500** molecular weight DNA ladder is designed for determining the size of short PCR products and dsDNA fragments in the 100–500 bp range. It is suitable for high percentage agarose gels (2-3%) and polyacrylamide gels (8-16%). The **M100-500 DNA Ladder** is a mixture of specially selected, purified blunt-ended PCR products. It gives a pattern of five regularly spaced bands, ranging from 100 bp and 500 bp. 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.

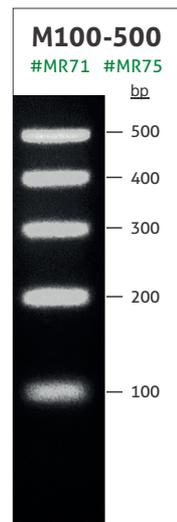
The **M100-500 DNA Ladder** is also supplied in a ready-to-use version pre-mixed with **6x GREEN** DNA loading buffer.

Features and advantages

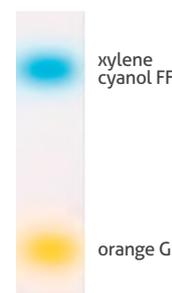
- Allows precise determination of short DNA fragments
- Band sizes are easily remembered (differ by 100 bp)
- Sharp bands are obtained after electrophoresis
- Suitable for gels stained with ethidium bromide, SYBR Green or other stain for DNA visualization
- Ready-to-use: direct gel loading

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M100-500 DNA Ladder



DNA fragment sizes (bp)
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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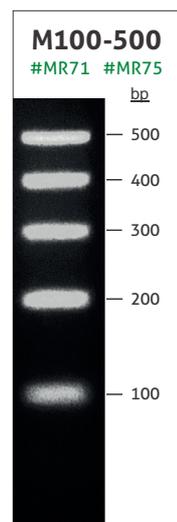
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