

M50pz DNA Ladder

Components	MR20 50-100 applications	MR201 50-100 applications
M50pz DNA Ladder	500 µl	500 µl (ready-to-use)
6x GREEN DNA Loading Buffer	500 µl	500 µl

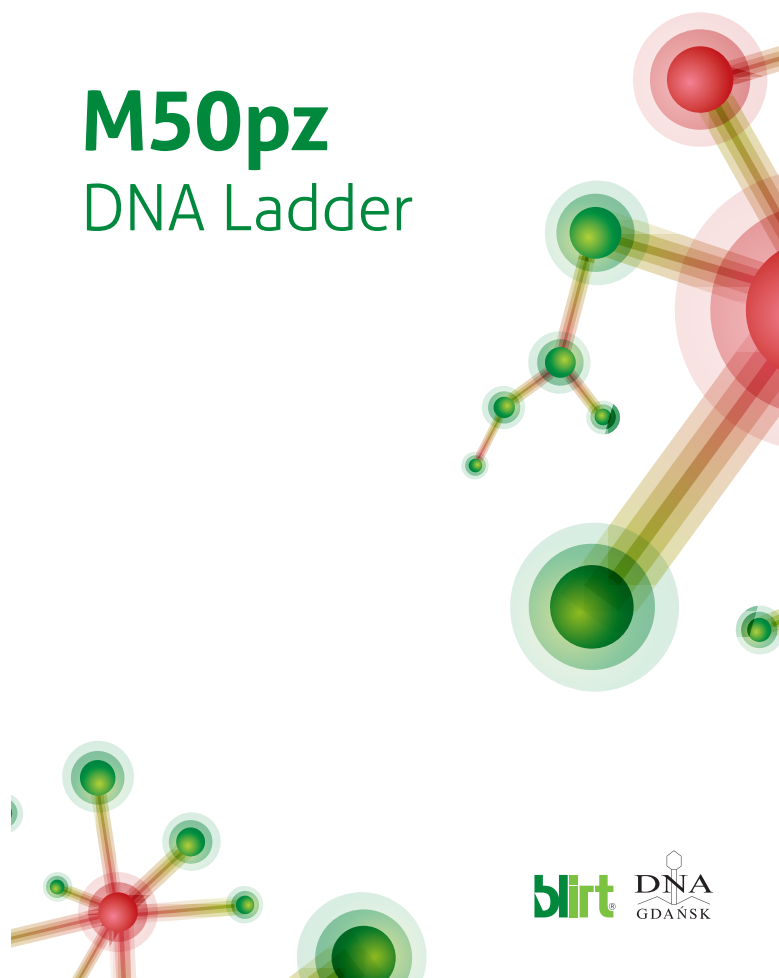
Additional information	
<p>Storage buffer 10 mM Tris-HCl (pH 7.6), 1 mM EDTA</p> <p>6x GREEN DNA Loading Buffer 20 mM Tris-HCl (pH 7.6), 60 mM EDTA, 0.03% xylene cyanol FF, 0.15% orange G, 15% Ficoll® 400</p> <p>Shipping conditions Shipping at room temperature</p>	<p>Storage conditions Keep at +4°C or 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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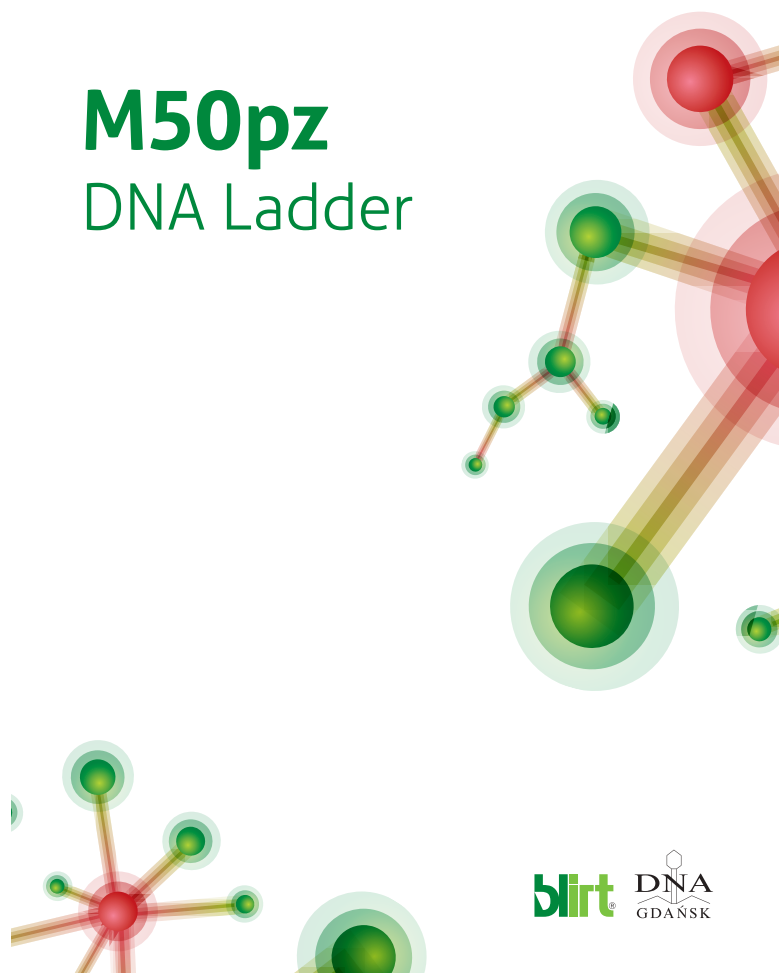
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M50pz DNA Ladder

The **M50pz** molecular weight DNA ladder is designed for determining the size of short and medium PCR products and dsDNA fragments in the 50 - 1000 bp range. The **M50pz 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.

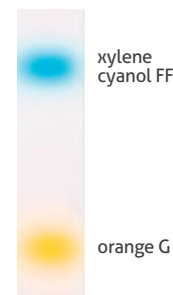
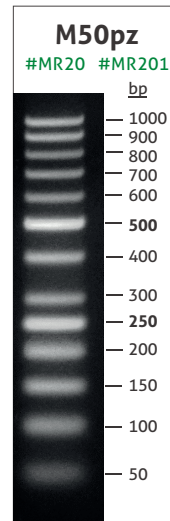
The **M50pz DNA Ladder** is also supplied in a ready-to-use version pre-mixed with **6x GREEN** DNA loading buffer.

Features and advantages

- Allows precise determination of short and medium sized DNA fragments
- Bands at 50 bp and 250 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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M50pz DNA Ladder



DNA fragment sizes (bp)
1000, 900, 800, 700, 600, 500, 400, 300, 250, 200, 150, 100, 50

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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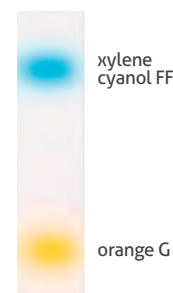
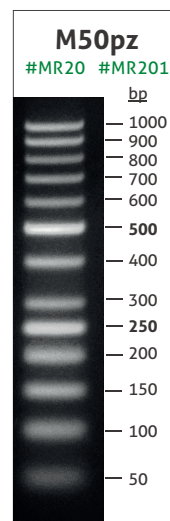
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