

MIDORIGreen Direct

Cat. No. MG05, MG06 - MG07, MG08 (without loading dye)

Description

MIDORI^{Green} DIRECT represents a new and safe class of nucleic acid stains for visualization of double stranded DNA, single-stranded DNA, and RNA in agarose gels. The dyes were developed to replace the toxic Ethidium Bromide (EtBr is a potent mutagen), commonly used in gel electrophoresis for visualization of nucleic acids in agarose gels. MIDORI^{Green} DIRECT was developed to work with Blue Light LED illuminators (like the FastGene® LED Illuminator or FastGene® LED Transilluminator) but it can be used with regular UV transilluminators as well.

The best signal is achieved using our unique excitation technology, the **BGLED** illuminators and imaging systems.

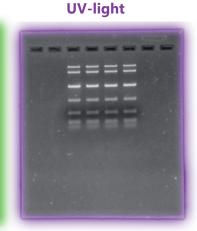
Safety

MIDORI^{Green} DIRECT stain is non-carcinogenic and less mutagenic compared to Ethidium Bromide. Furthermore, we can state that MIDORI^{Green} DIRECT is impenetrable to latex gloves and cell membranes. MIDORI^{Green} DIRECT is also classified as non hazardous to aquatic life, under CCR Title 22 regulation. Thus, small amounts of MIDORI^{Green} DIRECT stain can be safely released into the environment.

A detailed safety report can be downloaded at www.nippongenetics.eu or www.nippongenetics.de.

Example of MIDORIGreen DIRECT





Quick Notes

- MIDORIGreen DIRECT has loading buffer included
- · Compatible with all illuminators
- No background signal

Protocol

MIDORI^{Green} DIRECT is provided in a sample loading buffer and should only be added to your samples.

- 1. Prepare the agarose solution
- 2. Mix gentle without having any air bubbles
- 3. Let the solution cool down to 60-70 °C
- 4. Cast the gel
- 5. Mix samples and DNA markers with MIDORI^{Green} DIRECT stain at 1:10 (dye: samples) dilution rate.

Remark: If you expect only 1 or few DNA bands in a lane do not use more than 0.5 μ l MIDORI^{Green} DIRECT sample, even if you use more than 5 μ l sample volume. If you apply DNA ladders or samples with many bands use 1 μ l of Midori Green Direct.

6. After the electrophoresis, view and document your result, using traditional UV light or non-hazardous FastGene® Blue or Blue/Green LED Illuminator for health and performance reasons.

Ordering Information

MG05 - 50 μI MIDORI^{Green} DIRECT with loading dye MG06 - 1 ml MIDORI^{Green} DIRECT with loading dye

MG07 - 50 μl MIDORI^{Green} DIRECT without loading dye MG08 - 1 ml MIDORI^{Green} DIRECT without loading dye