



Product

MIDORI^{Green} Direct

Catalog #

MG06 (1 mL), MG05 (50 µL sample)

Category

DNA staining solution

Quick Notes

- MIDORI^{Green} Direct is non-toxic and non-carcinogenic
- The loading buffer is included
- Perfect staining of DNA/RNA in agarose gels
- No background signal

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 (EB 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 and Blue/Green Light LED illuminators (like the FastGene[®] LED Illuminator or FastGene[®] LED Transilluminator). The best signal is achieved using our unique excitation technology, the Blue/Green LED illuminators and gel documentation 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

Storage

1. Please store MIDORI^{Green} Direct at 4 °C
2. Do not freeze!

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 µl MIDORI^{Green} Direct sample, even if you use more than 5 µl sample volume. If you apply DNA ladders or samples with many bands use 1 µl 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.