

# MIDORI<sup>Green</sup> Advance Tablets

Cat. No. AG09

## Description

Midori Green Advance DNA Stain is a new nucleic acid stain which can be used as a safer alternative to the traditional ethidium bromide stain for detecting nucleic acid in agarose gels. It is as sensitive as Ethidium bromide and can be used exactly the same way in agarose gel electrophoresis.

Midori Green Advance DNA Stain emits green fluorescence when bound to DNA or RNA. It has two secondary fluorescence excitation peaks (~270 nm; ~290 nm) and one strong excitation peak centered around 490 nm. The fluorescence emission is centered at ~530 nm. Thus, Midori Green Advance DNA Stain is compatible with a wide variety of gel reading instruments.

Midori Green Advance DNA Stain can be used for precast agarose gels and when better sensitivity is needed - poststaining is recommended.

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

## Safety

Midori Green Advance DNA Stain is noncarcinogenic and according to the Ames test it causes significantly fewer mutations than Ethidium bromide.

A detailed safety report can be downloaded at [www.nippongenetics.eu](http://www.nippongenetics.eu).

## Note

- Usage not recommended with SDS containing loading buffers because of band appearance caused by stain and SDS interaction.
- Repeated melting of gels containing the stain may result in low sensitivity.
- Midori Green Advance DNA may irritate skin and eyes.
- Do not use hot water to dissolve the tablets

Please wear gloves while handling.

## Quick Notes

- MIDORI<sup>Green</sup> Advanced is a very safe DNA stain
- Compatible with all illuminators
- Very low background signal

## Protocol

- Use the bottle or flask that is at least 3 times of the volume of the solution being prepared.
- Add an appropriate number of agarose tablets in the water and do NOT add any buffer! See the table below to achieve needed gel percentage.

Gel %	1 Tablet	2 Tablets
1 %	50 ml H <sub>2</sub> O	100 ml H <sub>2</sub> O
1.5 %	33 ml H <sub>2</sub> O	67 ml H <sub>2</sub> O

- Soak the tablet in the pure cold water for 3-5 minutes (or until it is dissolved) before heating.
- For tablet dissolving use water which is at room temperature, DO NOT use hot water.
- Heat the solution until it is clear and visually all the particles are dissolved.
- Cool the gel to 60-70°C and cast the gel, into the gel tray.
- The thickness of gel should be <0.5cm.
- Run the gel in TBE running buffer.
- Detect the bands under **BGLED** or UV illuminator.

## Content

**Agarose, TBE Buffer, MIDORI<sup>Green</sup> Advance**

## Storage

Store at RT, protected from light, shipping at room temperature.

## Ordering Information

**AG09s** - 2 Tablets MIDORI<sup>Green</sup> Advanced Tablets  
**AG09** - 75 Tablets MIDORI<sup>Green</sup> Advanced Tablets

[www.nippongenetics.eu](http://www.nippongenetics.eu)