Product: **Midori Green Advance Agarose Tablets**

Cat. No. : AG11, AG11s

Category: *Agarose Tablets*

Description:

Midori Green Advance TAE Agarose Tablets contain everything necessary for an easy preparation of an agarose gel in desired gel percentage.

Midori Green Advance Agarose Tablets are packed in a convenient blister pack. This composition is optimized to yield high resolution of sharp DNA bands with high sensitivity and low background.

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.

The purity of the agarose leads to an excellent transparency and a low background. This is especially important to obtain sharp and well-defined DNA and/or RNA bands with the highest sensitivity in the low molecular weight range.

Safety:

Caution when using hot, viscous solutions! Use suitable safety gear and open bottle gently to avoid accidents.

Midori Green Advance DNA Stain is non-carcinogenic and according to the Ames test it causes significantly fewer mutations than Ethidium bromide. It can irritate skin and eyes. Please wear gloves while handling.

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

Quick Notes

Midori Green Advance Agarose Tablet contain:

- Agarose
- Midori Green Advance stain

Do **not** use hot buffer for dissolving the tablet

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 **running buffer**! See the table below to achieve needed gel percentage.

Gel %	1 tablet	2 tablets	3 tablets
1.0%	50 ml	100 ml	150 ml
1.5%	33 ml	66 ml	100 ml
2.0%	25 ml	50 ml	75 ml

- Soak the tablet in **running buffer** for 1-3 minutes (or until it is dissolved) before heating.
- For tablet dissolving use **running buffer** which is at room temperature.
- 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 – 0.7cm**.
- Run the gel in used running buffer.
- Detect the bands under Blue, BG LED or UV illuminator.

Storage:

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

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