

**Product:** **Midori Green Advance TAE Agarose Tablets**

**Cat. No. :** AG10, AG10s

**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 TAE Agarose Tablets are packed in a convenient blister pack.

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.

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

### Quick Notes

Midori Green Advance TAE Agarose Tablet contain:

- Agarose
- TAE powder
- Midori Green Advance stain

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

Do **not** add any buffer

### 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
0.8%	81 ml water	162 ml water
1.0%	65 ml water	130 ml water
1.2%	54 ml water	108 ml water
1.5%	43 ml water	86 ml water
2.0%	32.5 ml water	65 ml water

- Soak the tablet in pure **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 – 0.7cm**.
- Run the gel in TAE running buffer.
- Detect the bands under Blue, **BGLED** or UV illuminator.

### Storage:

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

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