



Frequently Asked Questions

What is the shelf life of Midori Green?	2 years
What is the shipment/storage temperature?	Room temperature
Can Midori Green be diluted?	Midori Green solution can be diluted in the ultrapure water.
Can we use Midori Green for RNA as well as DNA?	Midori Green can be used for RNA as well as dsDNA and ssDNA.
Is Midori Green suitable for UV illumination?	Yes, Midori Green is suitable for UV illumination.
Is it possible to use Midori Green on acrylamide gels?	No, Midori Green is recommended to use with agarose gels.
Can Midori Green be used with TAE and TBE buffers?	Yes, when running agarose gel, the electrophoresis buffer may be TAE or TBE buffer.
Is it possible to stain DNA with Midori Green in agarose gels as with EtBr (ethidium bromide)?	Yes, it can be used with the DNA in the gel like EtBr. However, post-staining should give a better sensitivity than precast gels, eliminating any possibility for the dye to interfere with the migration and thus the separation of the nucleic acid bands.
Can Midori Green be used for post-staining?	Yes
How should Midori Green be diluted when used for post-staining?	Add 5-10 μ l of Midori Green in 100 ml of buffer solution. Adjust optimal concentration and staining duration (from 5 to 60 minutes usually) according to your experiment.
Does Midori Green migrate in the gel?	Yes, therefore it is recommended to use optimal electrophoresis time and % of agarose for running gels. For longer products/running-time we recommend to use post-staining.
What are the excitation and emission lengths of Midori Green?	Midori Green has two secondary fluorescence excitation peaks (~300 nm; ~400 nm) and one strong excitation peak centered around 500 nm. The fluorescence emission is centered at ~540 nm.
Which filters (wavelength) can be used for Midori Green?	The filters designed for green dyes (like GFP/SYBR green filter) are the most sensitive. However, EtBr filter and simply UV-light without any filter can be used as well.
Is it possible to add Midori Green when agarose is dissolved in TAE	It is not recommended to add Midori Green in hot agarose solution. We recommend after making agarose solution, to cool it down to

buffer with on the hot plate and magnetic stirrer during the heating process?	approximately 60°C, then add Midori Green, shake carefully and mix thoroughly.
Does Midori Green perform with low concentration of DNA?	Yes, Midori Green can perform with low concentration of DNA. However, smaller fragments of less than 300 bp may not be as bright as the larger ones (post-staining could improve the results).
Does Midori Green interfere with downstream applications?	Avoid leaving Midori Green in downstream solution. You may purify the DNA solution with a purification kit.
Can Midori Green be used for pulse field gel electrophoresis?	It is not recommended to use Midori Green for pulse field gel electrophoresis.
Is it possible to use Midori Green in Southern blot experiments?	Yes, Midori Green is perfectly compatible with Southern blotting experiments.
Does the stain interfere with recovery of DNA from the stained gel once it is run?	No, the stain should not cause any problems for further experiments with that DNA.
Where should Midori Green be stored?	For the maximum performance and stability Midori Green should be stored in the dark (Midori Green is provided in brown vials).
Does Midori Green penetrate the latex gloves?	Midori Green should be impenetrable to latex gloves. However, as in common laboratory practice, it is recommended to wear gloves while working with Midori Green.
How can Midori Green be disposed after use?	Midori Green does not create any toxic waste. Therefore, it can be disposed according to laboratory regulations.