Updated: October 11, 2025

GelViewer Nucleic Acid Gel Stains, 10,000 ×

Cat. No.	Product	Spec.
FLD0703	GelViewer, 10,000 × in water	0.5 mL
FLD0703-1	GelViewer, 10,000 × in water	1 mL

Storage and Handling

- GelViewer is a thermal stable dye.10,000 × solution and dilute solution can be stored at **room temperature, protected from light**, at least one year after receipt.
- If dye precipitation occurs at lower temperatures, warm the solution to 45–50 ℃ for one to two minutes and mix thoroughly to redissolve.

Product Description

GelViewer is a highly sensitive, stable, low-toxicity fluorescent nucleic acid dye for staining dsDNA, ssDNA and RNA in agarose or polyacrylamide gels. It is a safer and more effective alternative to ethidium bromide (EtBr). GelViewer delivers excellent band visualization under both UV transilluminator and blue-light imagers, such as blue LED lightboxes. Using blue light minimizes DNA damage and protect users from UV exposure. GelViewer supports both in-gel staining (precast method) and post-staining, and is fully compatible with downstream applications, including gel purification, restriction digest, sequencing, and cloning. For the complete safety report, please visit www.msbiox.com.

Spectral Profile

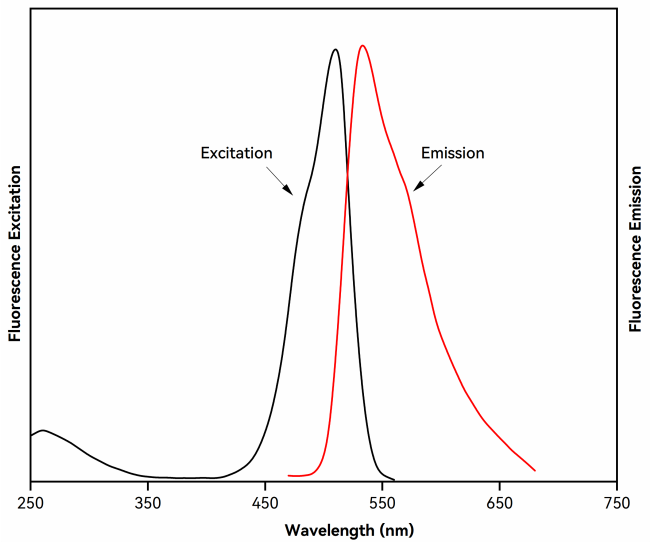

Figure 1: Excitation and emission spectra of GelViewer nucleic acid gel stain.

General Considerations

1. GelViewer can be used in both in-gel staining protocol and post-staining protocol. Post-staining generally provides higher sensitivity and is recommended for detecting low DNA concentrations. In-gel staining is not recommended for use with polyacrylamide gels.
2. DNA bands can be visualized using UV light (254 nm) or visible blue light. Blue light provides stronger fluorescent signals and is safer for both samples and users.
3. Recommended DNA load is 10–200 ng DNA per lane, or 2–5 µL PCR product. For large DNA load or maximum sensitivity, post-staining is preferred.
4. While GelViewer has passed multiple safety assessments at MSBIO, please follow all relevant laboratory safety practices and wear appropriate personal protective equipment (PPE).
5. For disposal, dilute GelViewer to lower than 1 ×, and consult your institution's biosafety or environmental officer for local disposal procedures.

Post-Staining Protocol

1. Run electrophoresis according to your standard protocol.
2. Dilute GelViewer to a 3 × staining solution using electrophoresis buffer.
3. Place the gel in a staining tray or suitable container and fully cover with the GelViewer 3 × staining solution.
4. Stain at room temperature for 10 to 30 min, with gentle shaking.
5. (Optional) Destain the gel with deionized water to reduce background.
6. Image the gel using a UV illuminator or blue-light imager.

In-Gel Staining Protocol

1. Prepare molten agarose gel solution according to your standard procedure.
2. Allow it to cool down to approximately 60 ℃ and add 10,000 × GelViewer at a 1:10,000 dilution.
3. Mix thoroughly and cast the gel.
4. Load samples and run electrophoresis.
5. Image the gel using a UV illuminator or blue-light imager.

Staining Results

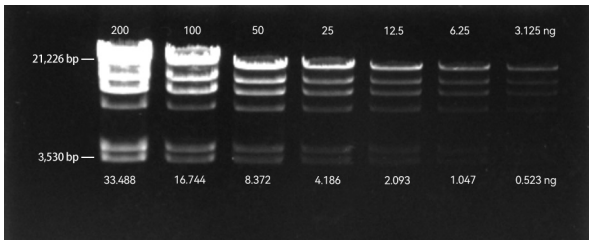

Figure 2: Post-staining of a 1 % agarose gel with GelViewer. Two-fold serial dilutions of λ-DNA/Hind III digest were loaded in amounts of 200, 100, 50, 25, 12.5, 6.25 and 3.125 ng from left to right.

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Related Products

Cat. No.	Product
FLD0601	Thiazole Green I ,10,000 × in DMSO
FLD0602	Thiazole Green II ,10,000 × in DMSO
FLD0701	JellyGreen, 10,000 × in DMSO
FLD0702	JellyRed, 10,000 × in water
FLD0703	GelViewer, 10,000 × in water

For Research Use Only. This product is intended for laboratory research purposes only and is not intended for use in diagnostic procedures, therapeutic applications, or in humans or animals.