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DATASHEET

GelStain

Catalogue No.:abx098146

GelStain is a sensitive, stable and safe staining reagent for DNA/RNA. GelStain is a specific form of oily macromolecules, which are incapable of entering cells via the cell membrane. GelStain is suitable for different sizes of DNA. It has less effect on the migration rate than SYBR Green. GelStain can be heated or microwaved. Strong fluorescent signal from samples, weak from background. GelStain can be used before electrophoresis gel or after electrophoresis. No destaining is needed. Standard ethidium bromide (EB) filter and SYBR filter can be used. The optimal excitation is obtained with UV wavelength approximately at 300 nm.

This product is provided as a 10,000X concentrated solution.

Target: GelStain

Storage: Store at -20°C. Stable for 12 months from date of receipt.

Directions for use: Post-Staining Protocol:

1. Run gels according to standard protocols.
2. Dilute GelStain 10,000X to 3X using distilled water. 0.1 M NaCl can be added to enhance sensitivity, but may promote dye precipitation if the gel stain is reused. Usually 50 ml of staining solution is sufficient for one minigel (i.e. add 15 µl GelStain 10,000X to 5 ml 1 M NaCl and 45 ml distilled water).
3. Place the gel in a suitable container. Add a sufficient quantity of 3X staining solution so that the gel is submerged.
4. Place the mixture on an orbital shaker and gently mix for approximately 30 minutes. The optimal staining time will vary depending on gel thickness and % agarose. Most agarose gels require 30 minutes.
5. Destaining is not required, though the gel can be washed with distilled water to reduce background if necessary.
6. The staining solution can be reused 2-3 times. Store at room temperature in the dark.

Pre-Cast Protocol for Agarose Gels:

Note: the pre-cast protocol is not recommended for polyacrylamide gels. Polyacrylamide gels can be stained using the post-staining protocol.

1. Prepare agarose gel solution using standard protocols.
2. For each 10 ml agarose gel solution, add 10 µl of GelStain 10,000X. GelStain can be added whilst the gel solution is still hot. Mix thoroughly.
3. Cast the gel and allow it to solidify.
4. Load samples and run the gels using standard protocols.
5. Unused agarose containing GelStain can be stored at room temperature for up to 7 days, and remelted to prepare more gels. We recommended adding more GelStain dye to any unused agarose before loading samples.

Note: This product is for research use only.