

Ver.23.04

Safe DNA Staining Solution

Cat.No.: OLD-1000

Description

Safe DNA Staining Solution is a stable and sensitive DNA staining dye. This fluorescent dye can be used as a replacement for Ethidium bromide (EtBr). It emits green fluorescence when bound to dsDNA and red fluorescence when bound to ssDNA upon excitation with UV radiation.

Product contents

- Safe DNA staining solution: 1mL

Storage

- Store at 2°C to 8°C for 1 year

Protocol

- Prepare 100mL agarose solution in appropriate buffer and heat in a microwave until the solution becomes clear and no small floating particles are visible.
- Add 10µL Safe DNA Staining Solution when the temperature of the solution reaches between 50 - 60°C.
- Gently mix the solution, prevent formation of air bubbles.
- Pour the gel into gel tray for casting
- Use the gel for electrophoresis after solidification.

Notes

- Thickness of gel should be less than 0.5cm, as thick gels may decrease sensitivity.
- Repeated melting of gels containing Safe DNA Staining Solution may decrease sensitivity.
- Fresh electrophoresis buffer is recommended for a better sensitivity.
- Safe DNA Staining Solution may irritate skin and eyes. Wear protective gear while handling.
- Ideal for visualization of DNA fragments larger than 1kb in size. Sensitivity is lower than Ethidium bromide for DNA fragments less than 1kb.
- Not suitable for gel recovery experiments.