



Catalog No.: C138

Product Name: DNA SafeStain

Size: 2x1000µl

Concentration: 10,000X

Description: **DNA SafeStain** is safe nucleic acid staining dye for the visualization of double-stranded DNA, single-stranded DNA, and RNA in agarose gels. The dye is developed to replace Ethidium Bromide (EtBr), a potent mutagen, commonly used in research labs for gel electrophoresis. **DNA SafeStain** is non-carcinogenic by the Ames test. **DNA SafeStain** emits green fluorescence when bound to DNA. It has two excitation wavelength peaks when bound to nucleic acid, at 290nm and 490nm. The emission wavelength for the **DNA SafeStain** is 530nm.

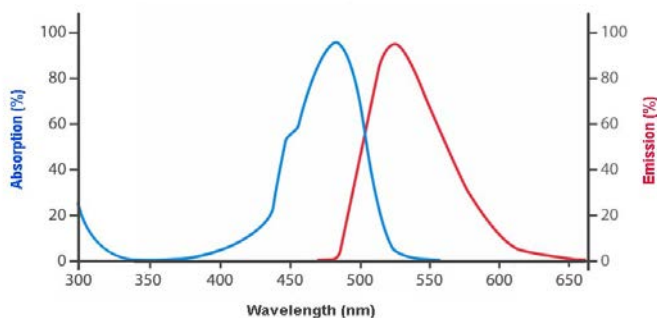


Figure 1. Fluorescence excitation and emission of DNA SafeStain.

Storage: Store at 4°C or room temperature; avoid direct light.

User Instruction: **DNA SafeStain** can be used in the exact same way as EtBr in agarose gel electrophoresis. For example, add 10µl to 100ml agarose gel.

Special Notes:

1. For convenience, you can dilute the **DNA SafeStain** 10,000 times with the gel running buffer, and use this dye-containing running buffer to make and run the agarose gel.
2. As is the case with EtBr; add more **DNA SafeStain**, if brighter DNA bands are desired.
3. Consult and follow your institution's specific regulations for chemical disposal.

To view the results, any conventional DNA gel viewing light box or gel documentation system should work well with the **DNA SafeStain**; although, using a LED blue light instead of a UV light source is preferred due to the harmful nature of UV light.

This Product is For Research Use Only

Related Products:

Catalog No.

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|------------------------------------|-------|
| • 100bp DNA Ladder | M107 |
| • 1Kb DNA Ladder II | M108 |
| • 100bp Plus DNA Ladder | M111 |
| • Pre-SafeStained 100bp DNA Ladder | M3002 |
| • Pre-SafeStained 1Kb DNA Ladder | M1008 |