



**Catalog No.:** **C138**

**Product Name:** **DNA SafeStain**

**Size:** **2x1000µl**

**Concentration:** **10,000X**

**Description:** **DNA SafeStain** is a new and safe nucleic acid stain for the visualization of double-stranded DNA, single-stranded DNA, and RNA in agarose gels. The dyes are developed to replace toxic Ethidium Bromide (EtBr, a potent mutagen), commonly used in gel electrophoresis for visualization of nucleic acids in agarose gels. **DNA SafeStain** is non-carcinogenic by the Ames-test. The results are negative in both the mouse marrow chromophilous erythrocyte micronucleus and mouse spermary spermatocyte chromosomal aberration tests.

**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.

**Storage:** Store under dark at 4°C or room temperature.

**User Instruction:** **DNA SafeStain** can be used in the exact same way as EtBr in agarose gel electrophoresis. For example, add 100µl to 1 liter of 1X running buffer (1xTAE or 1x TBE), and use this **DNA SafeStain** containing buffer to make the agarose gel and run the gel.

- Special Notes:**
1. For best results, dilute the **DNA SafeStain** 10,000 times in your gel running buffer and use this dye-containing running buffer to make your agarose gel and to run the gel.
  2. As is the case with EtBr; add more **DNA SafeStain**, if brighter DNA bands are desired.

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 light instead of a UV light source is preferred due to the harmful nature of UV light.

**This Product is For Research Use Only**

*For the proper disposal of this product, follow University or Company Guidelines.*

<b>Related Products:</b>	<b>Catalog No.</b>
• 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