

# **SafeView Nucleic Acid Stain**

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SafeView is a new, safe nucleic acid stain for the detection of double-stranded DNA, single-stranded DNA and RNA in agarose gels.

This dye replaces ethidium bromide (toxic, potential mutagen) for visualization of DNA or RNA in agarose gel.

SafeView is non-carcinogenic and causes significantly fewer mutations in the Ames-test and tests negative in both the mouse marrow chromophilous erythrocyte micronucleus test and mouse spermary spermatocyte chromosomal aberration test.

SafeView is as sensitive as ethidium bromide and it is used in the same way as ethidium bromide in agarose gel electrophoresis.

SafeView emits green fluorescence when bound to dsDNA and red fluorescence when bound to ssDNA or RNA. This stain has two fluorescence excitation maxima when bound to nucleic acid, at approx. 290nm and 490 nm.

## **PROTOCOL:**

1. Prepare a 100ml agarose solution
2. Add 5µl SafeView
3. Mix gently. Solution should have no air bubbles
4. Let the solution cool down to 60-70°C and cast the gel
5. View the results under UV light or dark reader.

SafeView is non-carcinogenic but may cause skin and eye irritations. Always wear gloves when working with the product.

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