PRODUCT DATASHEET

SafeView™ Nucleic Acid Stains

Store at 4°C

Cat. No.	Description	Quantity
G108	SafeView™ Classic	1.0ml
G108-G	Safe-Green™	1.0ml
G108-R	Safe-Red™	1.0ml
G108-W	Safe-White™	1.0ml
G108-P	Safe-Pack™	G108-G,R,W

Product Description

SafeView™ products represent a new and safe class of nucleic acid stains for the visualization of double-stranded DNA, single-stranded DNA, and RNA in agarose gels. The dyes are developed to replace toxic Ethidium Bromide (EB, a potent mutagen), commonly used in gel electrophoresis for visualization of nucleic acids in agarose gels.

SafeView™ products are 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.

NOTE: SafeView™ Nucleic Acid Stains are non-carcinogenic, but may cause skin and eye irritaions. Always wear gloves when working with the product.

SafeView™ Classic - Substitute for Ethidium Bromide in agarose gel

SafeView™ Classic is used the same way as Ethidium Bromide in agarose gel electrophoresis. It 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 approximately 290nm and 490nm.

Protocol

1. Prepare a 100ml agarose solution.
2. Add 5 µl SafeView™ Classic to the agarose solution.
3. Mix gently; solution should have no air bubbles.
4. Let the solution cool down to 60-70°C and cast the gel.
5. Run gel electrophoresis with 5µl SafeView™ classic per 100ml buffer.
6. View the results under UV light.

Safe-Green,Red,White,Pack™ - Substitute for loading dye

With SafeView™ dyes (Safe-Green,Red,White,Pack™), you do not need to add any dyes to both gel matrix and running buffers. SafeView™ dyes are provided in a form of 6x sample loading dyes and they are to be added to your samples only. The Safeview dyes completely eliminate any possible contamination of glassware or gel running tank as associated with EB. After the electrophoresis, view and document your results as you would do with EB staining protocols.

Protocol

1. Prepare a 100ml agarose solution.
2. Mix gently without having any air bubbles.
3. Let the solution cool down to 60-70°C and cast the gel.
4. Mix samples and DNA markers with a SafeView™ dye at 1:5 dilution rate.
5. View the results under UV light after electrophoresis.

For laboratory research only. Not for clinical applications.