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SafeView™ Nucleic Acid Stains

Store at 4°C

Cat. No.	Description	Quantity
G108	SafeView™ Classic	1.0 ml
G926	SafeView™ FireRed	1.0 ml
G108-G	Safe-Green™	1.0 ml
G108-R	Safe-Red™	1.0 ml
G108-W	Safe-White™	1.0 ml
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 (dsDNA), single-stranded DNA (ssDNA), and RNA in agarose and polyacrylamide 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 and polyacrylamide 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, SafeView™ FireRed- Substitute for Ethidium Bromide in agarose gel

SafeView™ Classic and SafeView™ FireRed are used the same way as Ethidium Bromide in agarose and polyacrylamide gel electrophoresis. SafeView™ Classic emits green fluorescence when bound to dsDNA and ssDNA, and red fluorescence when bound to RNA. This stain has one excitation (490 nm) and two emission spectra (520 nm and 635 nm). SafeView™ FireRed emits red fluorescence when bound to dsDNA, ssDNA, and RNA.

Protocol

1. Prepare a 100 ml agarose or polyacrylamide solution.
2. Add 5 µl SafeView™ Classic / SafeView™ FireRed to the gel solution.
3. Mix gently; the solution should have no air bubbles.
4. For agarose gel, let the solution cool down to 60 - 70°C and cast the gel. For polyacrylamide gel, add APS and TEMED and cast the gel according to regular polyacrylamide gel casting protocol.
5. Run gel electrophoresis with 5 µl SafeView™ Classic / SafeView™ FireRed per 100 ml buffer.
6. View the results under UV or blue LED light.

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

With SafeView™ dyes (Safe-Green™, Safe-Red™, Safe-White™, Safe-Pack™), you do not need to add any dyes to gel matrix or 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 eliminate contamination risk of glassware or gel running tank as associated with EtBr. After the electrophoresis, view and document your results as you would do with EtBr staining protocols.

Protocol

1. Prepare a 100 ml agarose or polyacrylamide solution.
2. Mix gently without introducing any air bubbles.
3. For agarose gel, let the solution cool down to 60 - 70°C and cast the gel. For polyacrylamide gel, add APS and TEMED and cast the gel according to regular polyacrylamide gel casting protocol.
4. Mix samples and DNA marker with SafeView™ dye at a 1:5 (dye : sample) dilution rate.
5. Following electrophoresis, view the results under UV.

Note:

Safe-Green™ can also be visible under blue LED light.