KIAGEN

New Product

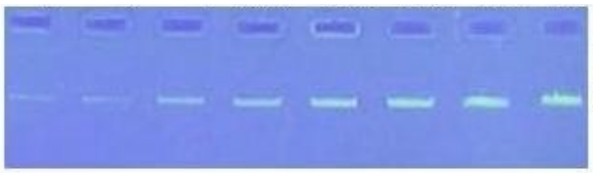
Safe Nucleic Acid Stain

SafeView™ Nucleic Acid Stain- An Alternative to EB

Description:

- SafeView™ is a new, safe nucleic acid stain instead of tranditional ethidium bromide (EB) for detecting double- stranded DNA, single-stranded DNA, and RNA in agarose gel.
- It emits green fluorescence when bound to dsDNA and red fluorescence when bound to ssDNA or RNA. This new stain has two fluorescence excitation maxima when bound to nucleic acid, one centered at approximately 290 nm and one at approximately 490nm.
- SafeView™ is as sensitive as EB, and its protocol is the same way to EB.
- Compared to EB known as strong mutagen, SafeView™ cause much fewer mutations is the Ames test.
- In addition, SafeView ™ has a negative test in mouse marrow chromophilous erythrocyte micronucleus test and mouse spermary spermatocyte chromosomal aberration test.
- So it is wise to choose SafeView ™ instead of EB for detecting nucleic acid in agarose gels.
- SafeView™ allows visualization of DNA(>50ng) in the agarose gel under **visible light**.
  - ✓ This eliminates the need for exposure to UV light, which can nick and damage DNA.
  - ✓ The intact DNA fragments purified from agarose gel can increase the efficiency of subsequent molecular biology manipulations such as cloning transformation and transcription.
- 1ml of SafeView™ is sufficient for 10-15 L of agarose gel.

5ng 10ng 20ng 30ng 40ng 50ng 60ng 70ng



Sensitivity detection of SafeView under UV transilluminator (300nm)

5ng 10ng 20ng 30ng 40ng 50ng 60ng 70ng

Sensitivity detection of EB under UV transilluminator (300nm)

The agarose gel indicates the sensitivity of SafeView is equivalent to the EB

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