

SafeView-II™ Nucleic Acid Stain

(10.000X)



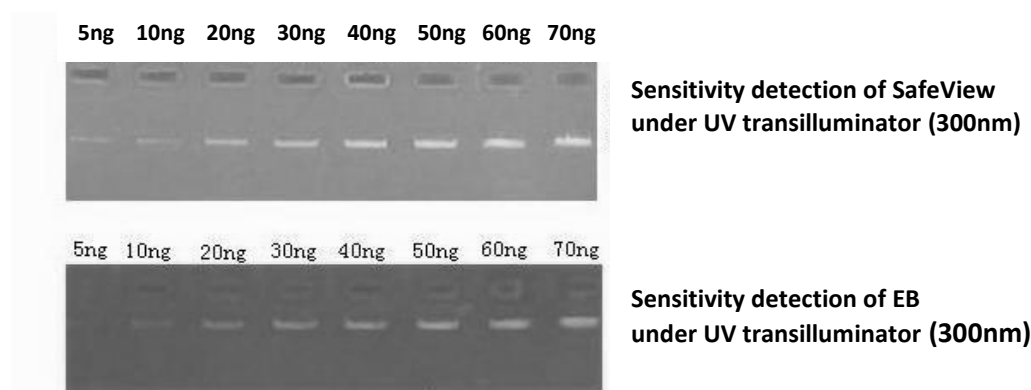
More sensitivity & less background

Description:

- SafeView-II™ is a new, safe nucleic acid stain instead of traditional 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-II™ is as sensitive as EB, and its protocol is the same way to EB.
- Compared to EB known as strong mutagen, SafeView-II™ cause much fewer mutations in the Ames test.
- In addition, SafeView-II™ 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-II™ instead of EB for detecting nucleic acid in agarose gels.
- SafeView-II™ 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-II™ is sufficient for 10-15 L of agarose gel.

Protocol:

- Prepare 100 ml of agarose gel solution (concentration from 0.8-3.0%) and heat until the solution is completely clear and no small floating particles are visible.
- Add 5-10 µl of SafeView-II DNA Stain to the gel solution and mix it gently.
- Cool the gel to 50-60°C and cast the gel, into the gel tray.
- When the gel is solid, load the samples and perform electrophoresis.
- Detect the bands under UV illuminator.



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

Ordering information:

	Cat.No.	Vol.
Safe View-II	K-8021	0.5 ml
Safe View-II	K-8022	1.0 ml

Kiagen Teb Co. LTD

www.kiagen-biotech.com info@kiagen-biotech.com
Tel: 88760179, Fax: 88759622