

Dye: SafeView

SafeView dye from NBS Biologicals is a nucleic acid stain used in gel electrophoresis for the detection of double stranded DNA (dsDNA), single-stranded DNA (ssDNA) or RNA. The SafeView dye is a safe alternative to ethidium bromide and has the equivalent level of sensitivity. SafeView emits green fluorescence when bound to dsDNA, ssDNA or RNA.

The SafeView dye can be added to an agarose solution prior to setting, however, this solution should be retained at 65°C for same day use.

Applications

The SafeView dye can be used for a variety of molecular biology applications including in gel staining, gel extraction, transformation, ligation and transfection and many more.

Visualization

Agarose gels stained with the SafeView dye can be easily visualized using all Syngene image capture systems.

SafeView dye has an excitation peak of 290nm and an emission peak of 490nm (currently no further spectral information is available).



Figure 1 – SafeView stained agarose gel visualized using the G:BOX iChemi range of image capture systems

Samples of DNA were resolved on a SafeView stained 2% agarose gel in TAE buffer. The gel was run at 120 volts for 1 hour. Bands were visualised by exposure to Epi blue lighting and a long wave band pass filter (FiltLP). The gel image was captured using GeneSnap software (Syngene) for an exposure time of 5000 milliseconds using the G:Box iChemi range of Syngene image capture systems.

The ideal SafeView gel image will have sharp defined bright bands as illustrated in the image above.

System	Lighting	Filter
Diversity and G:BOX iChemi range of cooled cameras	Blue light converter on transilluminator Epi blue from RGB module Epi long wave uv Safe imager	FiltUV FiltUV FiltLP FiltSP
G:BOX iChemi range using non cooled cameras and InGenius	Transilluminator – medium wave uv Blue light converter on transilluminator Safe Imager Epi long wave uv	FiltSP FiltSG FiltSI FiltSP

Table 1 - Recommended lighting and filter selection for visualizing SafeView stained agarose gels using Syngene image capture systems

Syngene reserves the right to amend or change specifications without prior notice. This Application note supersedes all earlier versions.

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