MDS-IG2K/ MDS-AE2K 1 ML

USER GUIDE: Safe Nucleic acid Gel Stain Dye

Store at 4°C.

PRODUCT DESCRIPTION:

EBL Easy-Safe nucleic acid gel stain dye ideal for excitation of nucleic acids with visible blue light transilluminators. Unlike toxic Ethidium Bromide, Easy-Safe is non-mutagenic and does not require special methods of disposal. EBL Easy-Safe stains for the visualization of double-stranded DNA, single-stranded DNA, and RNA in agarose and polyacrylamide gels

Easy-Safe PS (IN-gel Stain) can be used as a direct replacement for Ethidium Bromide in agarose and polyacrylamide gel electrophoresis. It is used the same way as Ethidium Bromide. The stain emits green fluorescence when bound to dsDNA, ssDNA and RNA. Easy-Safe PS exhibits excitation peaks at 510nm, allowing it to be used with blue light.

Easy-Safe GS (Gel Soaking) is supplied at 20,000X concentration and is added directly to the samples. No dye needs to be added to the gel or running buffer. After electrophoretic separation, view and document your results using a blue light illuminator.

NOTE: EBL Easy-Safe nucleic acid gel stain dye are non-carcinogenic, but may cause skin and eye irritations. Always wear gloves when working with the product.

Key Features:

- Replaces hazardous EtBr
- Excitation by blue light
- Non-mutagenic, environmentally safe
- Two types: PS (In gel-Stain) and GS (Gel Soaking)

PROTOCOL FOR Easy-Safe Nucleic Acid Gel Stain Dye

>>For Easy-Safe PS (IN-gel Stain)

1. Prepare 100ml of agarose or polyacrylamide solution.
2. Add 5ul of Easy-Safe PS stain to the gel solution before pouring gels.
3. For enhanced results, add Easy-Safe PS to the running buffer at a ratio of 2.5ul to 5ul per 100ml. Adding Easy-Safe PS to the running buffer will result in increased

sensitivity and better detection of small quantities of nucleic acid.

4. After electrophoresis is complete, view the gel using a blue light illuminator

>>For Easy-Safe GS (Gel Soaking)

1. Prepare a 100 ml agarose or polyacrylamide solution with no staining dye.
2. Prepare staining solution by diluting Easy-Safe GS 20,000X in TAE or TBE buffer.
3. After performing electrophoresis, transfer gel in a plastic container and cover with the staining solution. Ensure the box is covered to protect the contents from light. Agitate gently and incubate at room temperature for 10 - 30 minutes.
4. No destaining is required - visualize results directly under blue light.

Ordering information:

CAT NO:	Product	Quantity
MDS-IG2K	Easy-Safe PS (IN-gel Stain)	1ml/ 10ml
MDS-AE2K	Easy-Safe GS (Gel Soaking)	1ml/ 10ml