

DNA Safe Stain_{v2}

Supplied in 6x Loading Buffer

Cat.No.: EP5081

Package: 1ml/vial

Description

DNA Safe Stain_{v2} is a non-mutagenic fluorescent reagent that produces instant visualization of DNA bands upon Blue Light or UV illumination of agarose gels. Supplied in 6X DNA Loading Buffer, DNA Safe Stain_{v2} is used to prepare DNA markers and samples for loading on agarose or polyacrylamide gels. DNA Safe Stain_{v2} is the most sensitive stain available for detecting the double-stranded DNA (dsDNA). It contains three tracking dyes (Bromophenol Blue, Xylene Cyanol FF, and Orange G) for visually tracking the DNA migration during the electrophoresis process. It is ideal for the environment requiring a safe, non-hazardous alternative to Ethidium Bromide.

Tracking Dyes

Bromophenol Blue, Xylene Cyanol FF, and Orange G.

Applications

1. Vortex DNA Safe Stain_{v2} for 10 seconds prior to use.
2. Dilute 1 part DNA Safe Stain_{v2} with 5 parts DNA sample and mix.

Note: DNA Safe Stain_{v2} must be added to DNA markers in order to visualize the ladder bands simultaneously with the sample after electrophoresis

3. Load sample and run according to standard procedures.
4. After the electrophoresis, remove gel and place on UV or a visible-light transilluminator to immediately visualize bands.

Storage

Store at 4°C up to 12 months.

For longer periods, store at -20°C.

DNA Safe Stain_{v2} Dye is light sensitive and should be stored protected from light.

DNA Safe Stain_{v2} keeps your lab safe

- Safe – Absence of mutagenity and low toxicity (LC>5000mg/kg) as compared to Ethidium Bromide.
- Low Environmental Impact – Compliance with the Clean Water Act standards. No water pollution concern.
- Sensitivity – High degree of sensitivity as Ethidium Bromide.
- Convenience – Ready to Use; Same application procedures as the 6X Loading Dye.
- Speed – No de-staining requirement, low background value, and image displayed after coupling with the nucleic acid.
- Compatibility – Use the Blue Light or UV to detect the signal; Broad compatibility range.
- Economic – Non-hazardous product; No expenses required for the waste management.