

## StaySafe™ 6X DNA Loading Dye

Molecular Biology Grade

Store at  
-20°C**Cat. No. RDS01**

StaySafe™ 6X DNA Loading Dye: 1 ml

**Cat. No. RDS03**

StaySafe™ 6X DNA Loading Dye: 3 ml

**Cat. No. RDS10**

StaySafe™ 6X DNA Loading Dye: 10 ml

**Description**

StaySafe™ 6X DNA Loading Dye is a non-toxic fluorescent reagent supplied in loading buffer. It is used to prepare DNA markers and samples for loading on agarose or polyacrylamide gels.

StaySafe™ 6X DNA Loading Dye is the most sensitive stain available for detecting of double-stranded DNA (dsDNA). It contains three tracking dyes (Bromophenol Blue, Xylene Cyanol FF, and Orange G) for visually tracking of DNA migration during the electrophoresis process.

StaySafe™ 6X DNA Loading Dye produces instant visualization of DNA bands upon Blue Light or UV illumination of agarose gels. It is ideal for applications needing rapid DNA band visualization and for environments requiring a safe, non-hazardous alternative to Ethidium Bromide.

**Features**

**Safe and Economical** – Absence of mutagenicity and low toxicity (LC>5000mg/kg) as compared to Ethidium bromide. Non-hazardous product. No expenses required for the waste management.

**Low Environmental Impact** – Compliance with the Clean Water Act standards. No water pollution concern.

**Fast and Sensitive** – Ready to use. Apply just like a 6X Loading Dye. No de-staining required. Low background. High sensitivity just as Ethium Bromide.

**Improved Cloning Efficiency** – Ethidium bromide causes strand breaks or DNA nicking. StaySafe™ 6X DNA Loading Dye does not damage or mutate DNA.

**Usage**

- (1) Vortex StaySafe™ 6X DNA Loading Dye for 10 seconds prior to use.
- (2) Dilute 1 part StaySafe™ 6X DNA Loading Dye with 5 parts DNA sample and mix. **Dye must be added to DNA markers in order to visualize the ladder bands simultaneously with the sample after electrophoresis.**
- (3) Load sample and run the standard procedures.
- (4) After electrophoresis, place the gel on UV transilluminator or a visible light transilluminator to immediately visualize bands.
- (5) Gels can be post-stained with Ethidium Bromide if desired.

**Storage Conditions**

StaySafe™ 6X DNA Loading Dye should be stored at 4°C in a constant temperature freezer and kept away from light. For longer periods, store at -20°C.



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human therapeutic or diagnostic use.  
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