

## 6x Fluorescent DNA Loading Dye

Cat. No.	Description	Quantity
SAFE02-01	6xGreen Fluorescent loading dye	1.0 ml
SAFE02-02	6xGreen Fluorescent loading dye	5x1.0 ml
SAFE04-01	6xRed Fluorescent loading dye	1.0 ml
SAFE04-02	6xRed Fluorescent loading dye	5x1.0 ml

### Product Description

**SAFE loading dyes** represent a new and safe class of nucleic acid stains for the visualization of double-stranded DNA, single-stranded DNA, and RNA in agarose and polyacrylamide gels. The dyes are developed to replace toxic Ethidium Bromide (EtBr, a potent mutagen), commonly used in gel electrophoresis for visualization of nucleic acids in agarose and polyacrylamide gels.

**SAFE Loading Dyes** are non-carcinogenic by the Ames-test. The results are negative in both the mouse marrow chromophilous erythrocyte micronucleus and mouse spermary spermatocyte chromosomal aberration tests.

**With SAFE Green, Red loading dyes** you do not need to add any dyes to both gel matrix and running buffers. SAFE dyes are provided in a form of 6X sample loading dyes and they are to be added to your samples only. dyes eliminate contamination risk of glassware or gel running tank as associated with EtBr. After the electrophoresis, view and document your results as you would do with EtBr staining protocols.

### Protocol

1. Prepare a 100 ml agarose or polyacrylamide solution.
2. Mix gently without introducing any air bubbles.
3. For agarose gel, let the solution cool down to 60 - 70°C and cast the gel. For polyacrylamide gel, add APS and TEMED and cast the gel according to regular polyacrylamide gel casting protocol.
4. Mix samples and DNA marker with SAFE dye at a 1:5 (dye:sample) dilution rate.
5. Following electrophoresis, view the results under UV. SAFE Green loading dye can also be visible under blue LED light.

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