

Safe-Green Nucleic Acid Stain

Catalog	Unit
TBS6111	1.0 ml

Description

Safe-Green is a new and safe class of gel loading dye for the visualization of double-stranded DNA, single-stranded DNA, and RNA in agarose gels. The dye was developed to replace Ethidium Bromide (EtBr, a potent mutagen), commonly used in gel electrophoresis for visualization of nucleic acids in agarose gels. Safe-Green is 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. Safe-Green loading dye does not require the addition of any stain to the molten agarose, simplifying workflow processes. The product is provided in a ready to use 6X format and is added directly to samples prior to loading onto the gel. Safe-Green loading dye eliminates contamination risk of glassware or agarose gel apparatus as associated with EtBr.

Component

Product	Concentration	Format	Quantity
Safe-Green	6X	Loading Dye	1.0 ml

Store at 4°C.

Protocol

1. Prepare agarose gel solution, mix gently to avoid air bubbles.
2. Let the solution cool to 60-70°C and cast the gel.
3. Mix samples and DNA marker with Safe-Green loading dye at a 1:5 (dye : sample) dilution ratio, and load onto gel.
4. Following electrophoresis, view the results under UV or blue LED light.

For research use only