SCT123

GelRed® Nucleic Acid Stain 10000X Water

GelRed is a fluorescent nucleic acid stain designed to replace the highly toxic ethidium bromide (EtBr) for staining dsDNA, ssDNA or RNA in agarose gels or polyacrylamide gels.

Synonym(s):
Fluorescent DNA gel stain

DESCRIPTION

General description

GelRed is a sensitive, stable and environmentally safe fluorescent nucleic acid dye designed to replace the highly toxic ethidium bromide (EtBr) for staining dsDNA, ssDNA or RNA in agarose gels or polyacrylamide gels. GelRed and EtBr have virtually the same spectra (Figure 1), so you can directly replace EtBr with GelRed without changing your existing imaging system. In addition, GelRed is far more sensitive than EtBr (Figure 2).

The dye is noncytotoxic and non-mutagenic at concentrations well above the working concentrations used in gel staining. GelRed successfully passed environmental safety tests in compliance with CCR Title 22 Hazardous Waste Characterization, under which GelRed is not classified as hazardous waste.

Spectral Properties
Absorbance: Standard Transilluminator (302 or 312 nm)
Emission: Ethidium Bromide, SYBR or GelStar Filter

Application

Research Sub Category
Live Cell Dye

GelRed is a fluorescent nucleic acid stain designed to replace the highly toxic ethidium bromide (EtBr) for staining dsDNA, ssDNA or RNA in agarose gels or polyacrylamide gels.

Nucleic acid detection

Research Category
Cell Culture

Quality

Spectral Properties
Absorbance: Standard Transilluminator (302 or 312 nm)
Emission: Ethidium Bromide, SYBR or GelStar Filter

Physical form

Liquid

Storage and Stability

GelRed is a very stable dye. Store GelRed at room temperature, protected from light. Dye precipitation may occur at lower temperatures, resulting in lower signal or the appearance of precipitate on the surface of the gel. If this occurs, heat the solution to 45-50°C for two minutes and vortex. Protect From Light.

Legal Information

GelRed is a registered trademark of Biotium Inc.

Disclaimer

Unless otherwise stated in our catalog or other company documentation accompanying the product(s), our products are intended for research use only and are not to be used for any other purpose, which includes but is not limited to, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses or any type of consumption or application to humans or animals.