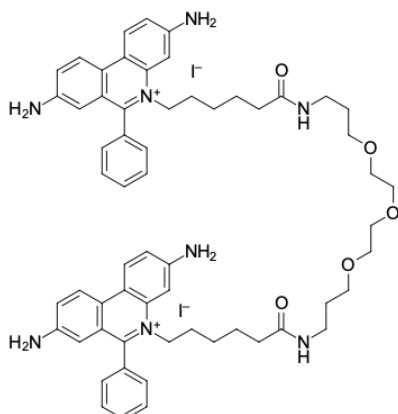


GelRed, Nucleic Acid Gel Staining Solution, 10,000x

<http://www.lumiprobe.com/p/gelred-gel-stain>

GelRed is a fluorescent nucleic acid dye that could be used instead of ethidium bromide (EtBr), [dsSafe®](#), and others for staining dsDNA, ssDNA, or RNA in agarose gels or polyacrylamide gels. GelRed is more stable, more sensitive, and less toxic than EtBr (because of being cell membrane-impermeant) and doesn't require a destaining step. GelRed has been validated for Southern blotting.

GelRed and EtBr have virtually the same spectra (absorbance 300 nm, emission 605 nm), so one can directly replace EtBr with GelRed without changing the existing imaging system. GelRed is also compatible with downstream DNA manipulations such as restriction digest, sequencing, and cloning.



Structure of GelRed

General properties

Appearance: purple solution

Molecular weight: 1239.07

Molecular formula: $C_{60}H_{72}I_2N_6O_5$

IUPAC name: 6-(3,8-diamino-6-phenylphenanthridin-5-ium-5-yl)-N-[3-[2-[2-[3-[6-(3,8-diamino-6-phenylphenanthridin-5-ium-5-yl)hexanoylamino]propoxy]ethoxy]ethoxy]propyl]hexanamide;diiodide

Solubility: water

Quality control: NMR 1H and HPLC-MS (95+%)

Storage conditions: 24 months after receipt at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Desiccate.

Legal statement: This Product is offered and sold for research purposes only. It has not been tested for safety and efficacy in food, drug, medical device, cosmetic, commercial or any other use. Supply does not express or imply authorization to use for any other purpose, including, without limitation, in vitro diagnostic purposes, in the manufacture of food or pharmaceutical products, in medical devices or in cosmetic products.