

dsGreen Nucleic Acid Gel Staining Solution, 10000×

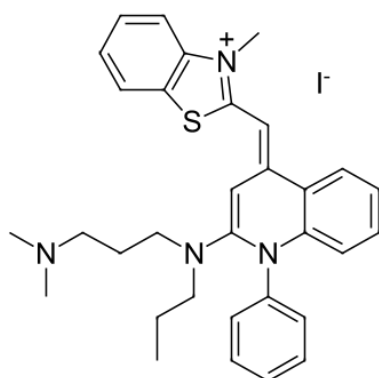
<http://www.lumiprobe.com/p/sybrgreen-i-gel-stain>

dsGreen is a sensitive dsDNA binding dye, which can be used for routine DNA detection in agarose and polyacrylamide gels. A [qPCR grade reagent](#) is also available.

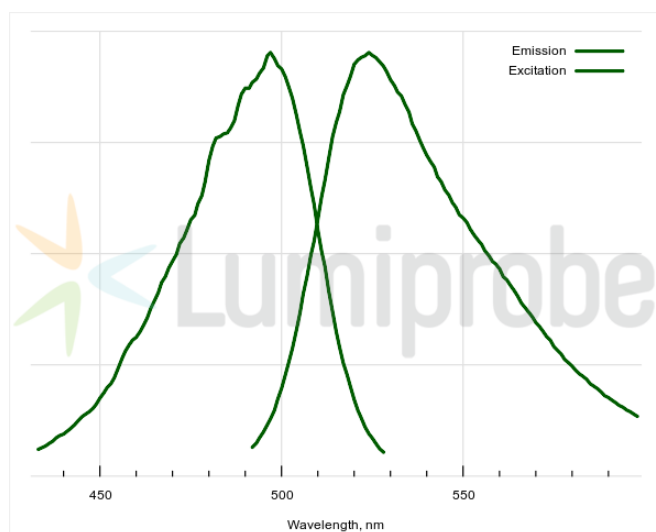
Unlike ethidium bromide, dsGreen is highly selective towards double stranded DNA, much less harmful, and offers better sensitivity.

Comparison between ethidium bromide and dsGreen

Feature	Ethidium Bromide	dsGreen
Fluorescence	Red (615 nm)	Green (524 nm)
Excitation maximum	302 nm	454 nm
Excitation light source	UV only	Blue light or UV
Sensitivity	2 ng / band (dsDNA) 100 ng / band (RNA)	0.08 ng / band (dsDNA) 1-2 ng / band (oligonucleotides)
Health hazard	High	Low



dsGreen I structure



Excitation and emission spectra of dsDNA complex with dsGreen

General properties

Appearance: orange solution

Quality control: NMR ¹H, HPLC-MS (95%), functional testing

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

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Spectral properties

Excitation/absorption maximum, nm: 490

ϵ , L·mol⁻¹·cm⁻¹: 73000

Emission maximum, nm: 524

Fluorescence quantum yield: 0.8

Kit

Storage time in months: 12