

SYBR Safe DNA Gel Stain

SYBR Safe DNA Gel Stain is a safe, sensitive, and easy-to-use DNA stain for agarose and acrylamide gels. It is suitable for staining DNA and RNA in gels. The stain is also suitable for staining RNA in gels. Bound to nucleic acids, SYBR Safe stain has fluorescence excitation maxima at 280 and 502 nm, and an emission maximum at 530 nm (Figure 1).

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SYBR®Safe DNA gel stain has been specifically developed for reduced mutagenicity, making it safer than ethidium bromide for staining DNA in agarose or acrylamide gels. SYBR®Safe stain comes either as a concentrate or as a ready-to-use solution that can be used just like an ethidium bromide solution, and the detection sensitivity with SYBR®Safe stain is comparable to that obtained with ethidium bromide. DNA bands stained with SYBR®Safe DNA gel stain can be detected using a standard UV transilluminator, a visible-light transilluminator, or a laser-based scanner. The stain is also suitable for staining RNA in gels. Bound to nucleic acids, SYBR®Safe stain has fluorescence excitation maxima at 280 and 502 nm, and an emission maximum at 530 nm (Figure 1).

The agarose/SYBR®Safe stain mixture may be heated in the microwave. As with precasting gels with ethidium bromide, the mobility of nucleic acid fragments in the gel may be somewhat

Fragment Size (bp)	Agarose Gel	Agarose/SYBR®Safe Gel
100	4	4
200	4	4
300	4	4
400	4	4
500	4	4
600	4	4
700	4	4
800	4	4
900	4	4
1000	4	4
1100	4	4
1200	4	4
1300	4	4
1400	4	4
1500	4	4
1600	4	4
1700	4	4
1800	4	4
1900	4	4
2000	4	4
2100	4	4
2200	4	4
2300	4	4
2400	4	4
2500	4	4
2600	4	4
2700	4	4
2800	4	4
2900	4	4
3000	4	4
3100	4	4
3200	4	4
3300	4	4
3400	4	4
3500	4	4
3600	4	4
3700	4	4
3800	4	4
3900	4	4
4000	4	4
4100	4	4
4200	4	4
4300	4	4
4400	4	4
4500	4	4
4600	4	4
4700	4	4
4800	4	4
4900	4	4
5000	4	4

