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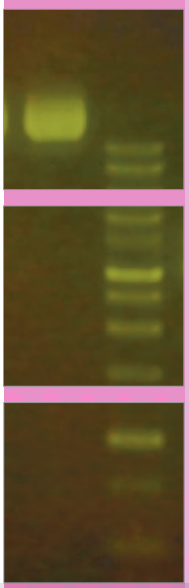
EZ runSAFE

general purpose stain for DNA ranging from 50bp to large supercoiled plasmid

runSAFE Range comprises four non-mutagenic stains that produce instant visualisation of DNA bands upon irradiation with blue light or UV in agarose or polyacrylamide gels



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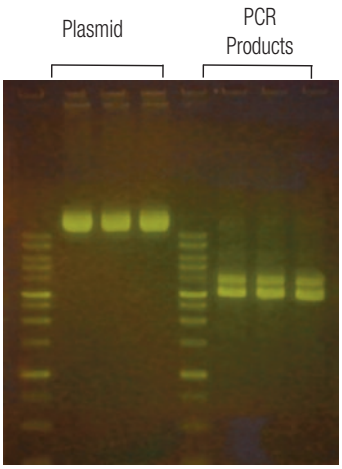
runSAFE -

less DNA damage, improved cloning efficiency

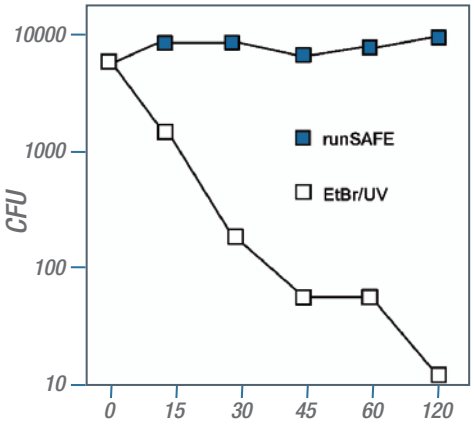
- Safe – all four runSAFE stains have ultra-low toxicity (LC>5000mg/kg) and lack cell permeability
- Convenient – each stain is supplied as a ready to use 6x Loading dye; simply add 1 part stain to 5 parts DNA, mix and load your gel
- Fast – no time-consuming post- staining or de-staining of gels is required
- Sensitive – very low background staining of the gel; detects as little as 0.2ng DNA per band
- Improved cloning efficiency – does not damage or mutate DNA, and does not affect downstream cloning applications such as ligation
- Flexible – each stain may be used with Blue or UV light
- runVIEW™ compatible – all four stains are perfect for use with the runVIEW™ real-time horizontal gel electrophoresis system supplied with bluVIEW amber filter lid.

The runSAFE Range comprises four non-mutagenic stains that produce instant visualisation of DNA bands upon irradiation with blue light or UV in agarose or polyacrylamide gels.

Each stain is conveniently supplied in a 6x loading dye which is mixed with 5 parts double-stranded DNA before loading onto an agarose or polyacrylamide gel. The individual colour constituents within each loading dye track electrophoresis run progression, and indicate the extent of band separation and resolution by co-migrating with DNA bands of known molecular size, which varies according to the gel percentage. All four stains are non-toxic, safe for the environment and can be disposed of in the regular laboratory waste without using expensive decontamination methods. Each stain is sensitive and binds DNA to detect as little as 0.2ng DNA per band within a gel; while gel imaging is best performed using the amber emission filter of the bluVIEW lid or runDOC filter slide.



Blue LED System



Slower migrating species, indicative of a linear or relaxed circular vector, resulting from DNA nicking or strand breaks, are significantly reduced in DNA plasmid mixed with run-SAFE and exposed to blue light. The concentration of nicked DNA plasmid increases significantly after 8' of exposure to EtBR and UV irradiation.

ORDERING INFORMATION

runSAFE	Description	Tracking Dyes	Size Range
RUNSAFE	runSAFE stain, 1ml	Bromophenol Blue, Xylene Cyanol FF, Orange G	50bp – 20Kb
RUNSAFE- PLUS500	runSAFE-PLUS500 stain, 1ml	Bromophenol Blue, Xylene Cyanol Blue	>500bp
RUNSAFE- 2000	runSAFE- 2000, 1ml	Xylene Cyanol Blue, Orange G	500-2000bp

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