

Energetic iNtRON !!

Energetic iNtRON promises to you to be the origin of energy in Biotechnology!
Do take our energy!!!

*Good bye ~
EtBr*



RedSafe™

Nucleic Acid Staining Solution (20,000x)

- RedSafe™ is sensitive, stable and environmentally safe for nucleic acid staining in agarose gel to replace the high toxic EtBr
- Much fewer mutations than EtBr staining to isolate DNA fragments for subcloning

EtBr

NO !!!!!

Characteristics

- Used for detecting DNA and RNA
- Alternative to the ethidium bromide staining
- As sensitive as EtBr or more sensitive than it
- Non-toxic, non-mutagenic and non-carcinogenic
- No hazard waste (safely disposed of down the drain)



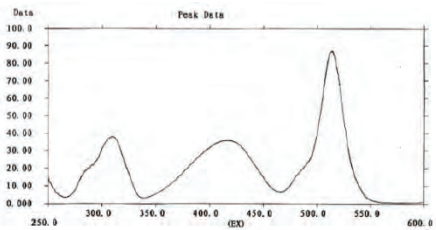
iNtRON
BIOTECHNOLOGY

*Good bye ~
EtBr*

RedSafe™ Nucleic Acid Staining Solution (20,000x)

RedSafe™ Nucleic Acid Staining Solution (20,000x) is a new and safe nucleic acid stain, an alternative to the traditional ethidium bromide(EtBr) stain for detecting nucleic acid in agarose gels. It emits green fluorescence when bound to DNA or RNA. This new stain has two fluorescence excitation maxima when bound to nucleic acid, one centered at 309 nm and another at 419 nm. In addition, it has one visible excitation at 514 nm. The fluorescence emission of RedSafe™ bound to DNA is centered at 537 nm. RedSafe™ Nucleic Acid Staining Solution (20,000x) is as sensitive as EtBr.

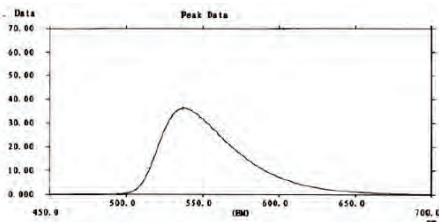
Spectrum range



EM : 540.0nm Data Mode : Fluorescence
Scan Speed : 2400 nm/min Slit (EX/EM) : 5.0 nm/5.0 nm
PMT Voltage : 400V Response : Auto

| NO | Wavelength(nm) | Peak |
|----|----------------|-------|
| 1 | 308.8 | 38.17 |
| 2 | 419.2 | 35.93 |
| 3 | 513.8 | 87.06 |

Fig 1. Measurement of fluorescence excitation wavelength
RedSafe™ Nucleic Acid Staining Solution (20,000x) has two fluorescence excitation maxima, one centered at 309 nm and another at 419 nm. In addition, it has one visible excitation at 514 nm.



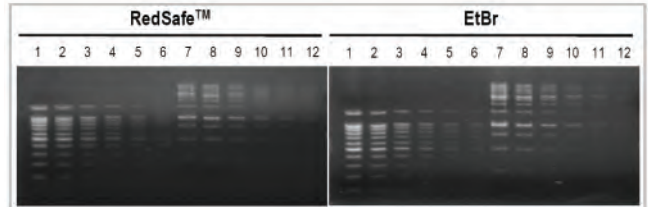
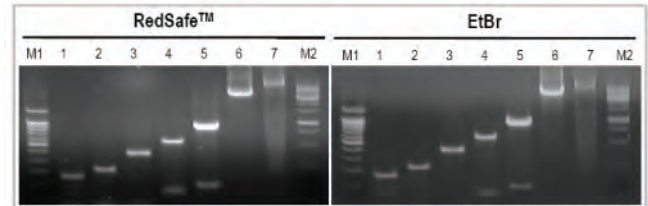
EX : 416.0nm Data Mode : Fluorescence
Scan Speed : 2400 nm/min Slit (EX/EM) : 5.0 nm/5.0 nm
PMT Voltage : 400V Response : Auto

| NO | Wavelength(nm) | Peak |
|----|----------------|-------|
| 1 | 537.2 | 36.26 |

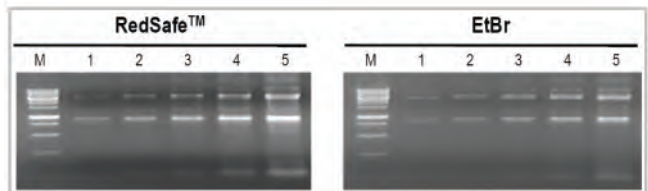
Fig 2. Measurement of fluorescence emission wavelength
The fluorescence emission of RedSafe™ Nucleic Acid Staining Solution (20,000x) bound to DNA is centered at 537 nm.

RedSafe™ VS EtBr

DNA detection



RNA detection



Ordering Information

| Product | Package | Cat.No. |
|---------------------------------------------------|---------|---------|
| RedSafe™ Nucleic Acid Staining Solution (20,000x) | 1 ml | 21141 |



INTRON
BIOTECHNOLOGY

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