



**Cyrusbioscience**

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## ***SafeGreen* DNA staining solution 10,000X**

**Product No.:** 3508

**Package:** 1ml; 1mlx2

**Storage:** Store at room temperature for daily use.

Store at 4°C for long term storage. Dissolve completely before usage.

### **Technical Specifications**

Excitation: 470 nm (UV as well)

Emission: 525 nm (green)

Light Source: Blue light

Sensitivity Limit: 0.5 ng DNA per band

Safety: Non-carcinogenic by the Ames test.

May cause skin and eye irritation. Always wear gloves when working with the product.

### **Description**

***SafeGreen* DNA staining solution 10,000X** replace toxic Ethidium Bromide (EtBr), a potent mutagen, for the visualization of double-stranded DNA in agarose. It is non-carcinogenic and easy to use.

### **Protocol**

1. Prepare a 100 ml of agarose gel solution in a suitable flask and mix it thoroughly.
2. Place the flask in the microwave, heat in until the solution is completely clear and on small floating particles are visible (about 2~3 minutes).
3. Add 10 µl of ***SafeGreen* DNA staining solution 10,000X** to the agarose solution. Swirl the flask gently to mix the solution and avoid forming bubbles.
4. Let the solution cool down to 60 – 70°C and cast the gel.
5. Allow the agarose gel to cool until solidified. Load samples on the gel and perform electrophoresis.
6. View the results under blue LED light or UV.

※If ***SafeGreen* DNA staining solution 10,000X** was not added prior to gel casting, stain by immersing the gel in the buffer containing ***SafeGreen*** :

1. Prepare enough buffer (TAE or TBE) containing ***SafeGreen***, dilute ***SafeGreen*** by 1: 10,000 (1µl : 10ml).
2. Cover the gel and soak the gel completely with gentle agitation until the bands are fully detected (about 20 min)