



**NOYA-Safe Dye**  
**Catalog number: N-1211**  
**« Research Use Only »**

**Overview**

The function of loading dye in electrophoresis is to allow the DNA sample to sink into the well of the gel. It helps visual tracking of the DNA sample as it runs through the gel. Ethidium-Bromide is a classic gel stain for visualization of DNA fragments in agarose gel. Many papers point to its carcinogenicity. Other drawback is contamination of environment.

NOYA-safe has a special formulation with dual purposes of DNA loading and staining. It consists of SYBR-green which is less toxic than Ethidium-Bromide (Ames test result).

**Protocol**

Add 3-4 $\mu$ l to PCR product and apply to agarose gel.

**Visualization and photography**

Illuminate the running gel using 300nm ultraviolet transilluminator or for greater sensitivity; 254nm epi- illumination.

Note: NOYA-safe has low intrinsic fluorescence, so no need to remove free dye.

**Decontamination**

Add 1g activated charcoal to each 10 liter of 1X buffer. The charcoal may then be disposed as solid hazardous waste.

**Storage**

Store at 2-8°C for at least six months

**Notes**

- **FOR RESEARCH USE ONLY. NOT FOR HUMAN OR DIAGNOSTIC USE.**
- Please observe general laboratory precaution and utilize safety while using this reagent.

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