

# **ClearBand** SAFE DNA Gel Stain Solution, 20,000x

1 ml, 5x1 ml

**Cat No:** SDGS1, SDGS5

**Shipping** : Ship at ambient temperature.

**Storage** : Stable for at least 1 year when stored at 4°C.

## **General Information**

**ClearBand** SAFE DNA Gel Stain Solution, 20,000x, is an aqueous fluorescent nucleic acid gel stain as a safer alternative to traditional ethidium bromide (EtBr) to be used at 1x concentration in agarose or polyacrylamide gels.

One vial (1 ml) of **ClearBand** SAFE DNA Gel Stain Solution, 20,000x, can be used to prepare at least 200 precast mini gels. **ClearBand** SAFE DNA Gel Stain Solution, 20,000x is compatible with downstream applications including gel extraction and cloning.

## **Key Features;**

**Safety:** No toxicity, no mutagenicity and no carcinogenicity.

**Eco-friendly:** Safe to dispose in the drain. No hazard wastes.

**Affordable:** Low cost. An affordable alternative to competing dyes.

**Compatibility:** Compatible with instruments that are suitable for detection of gels with EtBr. Suitable for blue LED detection.

## **Protocol**

The staining protocol for **ClearBand** SAFE DNA Gel Stain Solution, 20,000x is similar to that for EtBr.

**Note:** Briefly vortex **ClearBand** SAFE DNA Gel Stain Solution, 20,000x before use.

1. Prepare agarose gel solution in a flask using your standard protocol. Heat the agarose solution until the solution is completely clear.
2. Add 5µl of **ClearBand** SAFE DNA Gel Stain Solution, 20,000x per 100 ml of the gel before casting the gel. Swirl the flask gently to mix the solution and avoid producing air bubbles. **ClearBand** SAFE DNA Gel Stain Solution, 20,000x can be added while the gel solution is still hot.
3. Pour the solution from step 2 into the gel tray, insert the combs and allow the agarose gel to cool until it solidifies.

**Note:** The thickness of gel is recommended to be less than 0.5 cm to increase the sensitivity.

4. Load samples on the gel and perform electrophoresis.
5. Detect the bands under UV illumination or blue LED.