

# ClearView DNA Stain

Date: 2022.12

Version: 22-01

**Cat # :** PT-D2001    **Size :** 1 ML  
SA-D2001    **Size :** 50  $\mu$ L

## Product Description:

- ClearView DNA Stain is a new nucleic acid stain that can be used as a safer alternative to the traditional ethidium bromide stain for detecting nucleic acids in agarose gels. It is as sensitive as Ethidium bromide and can be used exactly the same way in agarose gel electrophoresis.
- ClearView DNA Stain emits green fluorescence when bound to DNA or RNA. It has two secondary fluorescence excitation peaks (~270 nm; ~290 nm) and one strong excitation peak centered around 490 nm. The fluorescence emission is centered at ~530 nm. Thus, ClearView DNA Stain is compatible with a wide variety of gel reading instruments.
- ClearView DNA Stain can be used for precast agarose gels and when better sensitivity is needed - poststaining is recommended.

## Protocol:

### Precasting:

1. Prepare 100 ml of agarose gel solution (concentration from 0.8 - 4.0%) and heat until the solution is completely clear and no small floating particles are visible.
2. Cool the gel to 50 - 60°C and add **2 - 6  $\mu$ l** of ClearView DNA Stain to the gel solution.  
(For Blue-Light illumination, 1 - 2 $\mu$ l of ClearView DNA Stain is recommended.)
3. Mix it gently and cast the gel, into the gel tray.
4. When the gel is solid, load the samples and perform electrophoresis.
5. Detect the bands under UV illuminator or Blue-Light transilluminator.

### Post-staining:

1. The ClearView post-staining solution may be used 2 - 3 times. Staining solution to be reused should be preferably stored at room temperature in the dark.  
  
For < 0.5 cm thick agarose gel, 10 - 20  $\mu$ l of the stain should be used per 100 ml of buffer.
2. Optimal staining time (20 - 40 minutes) and the amount of the stain may depend on the thickness of the gel and the percentage of agarose. Destaining could be done by washing the gel with water 10 - 20 minutes to remove excess dye if required.
3. Detect the bands under UV illuminator or Blue-Light transilluminator.

**Note:**

- 1 ml of ClearView DNA Stain is sufficient for 17 - 25 L of agarose gel.
- The thickness of gel should **< 0.5cm**
- Repeated melting of gels containing ClearView DNA Stain may result in low sensitivity.
- ClearView DNA Stain is non-carcinogenic but may irritate skin and eyes. Please wear gloves while handling.
- This product is designed for research purposes and *in vitro* use only. According to common laboratory safety practice, it is recommended to wear protective clothing, gloves and safety glasses.

**Application:**

Non-carcinogenic alternative to Ethidium bromide

**Form & Storage:**

Liquid form

Store at 4°C. (Please protected from light.) This product is stable for 1 year from the date of shipment.

**Safety:**

ClearView DNA Stain is non-carcinogenic and it causes significantly fewer mutations than Ethidium bromide.

Manufactured for and distributed by Protech Technology Enterprise Co.,Ltd

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