

VisualaNA (A) Nucleic Acid Stain

Cat No: DY-M-002-500

Size: 500ul

Store at 15-25°C (protect from light)

For longer use, store at 4°C
(Ready to use)

MOLEQULE-ON®

Description

VisualaNA A is a safe nucleic acid stain for the detection of double stranded DNA, single-stranded DNA and RNA in agarose gels.

This dye replaces Ethidium Bromide (toxic and potential mutagen) for visualization of DNA and RNA in agarose gel. VisualaNA A DNA stain emits green fluorescence when bound to DNA or RNA. It has two secondary fluorescence excitation peaks (~270nm; ~290nm) and one strong excitation peak centered around 490nm. The fluorescence emission is centered at ~530nm. Thus, VisualaNA A DNA stain is compatible with a wide variety of gel reading instruments. VisualaNA A can be used for precast agarose gels and when better sensitivity is needed – post-staining is recommended. VisualaNA A is non-carcinogenic and according to the Ames test, it causes significantly fewer mutations than Ethidium bromide.

Features

- Non carcinogenic
- Non hazardous to the environment
- VisualaNA A is as sensitive as ethidium bromide

Protocol

In Gel Staining

1. Prepare 100 ml of agarose gel solution (concentration from 0.8 – 3.0%) and heat until the solution is completely clear and no small floating particles are visible.
2. Add 4-6 µl of VisualaNA A to the gel solution and mix it gently. Cool the gel to 50 – 60°C and cast the gel into the gel casting tray.
3. When the gel is solid, load the samples and perform electrophoresis.
4. Detect the bands under UV illuminator.
5. Yellow or green gelatin or cellophane filters should be ready for photography.

Post Staining

1. VisualaNA A post-staining solution may be used 2 – 3 times. Staining solution to be reused should be preferably stored at room temperature in the dark.
2. For <0.5 cm thick agarose gel, 10-25 µl of the stain should be used per 100ml of buffer.
3. Optimal staining time (5 – 60 minutes) and the amount of the stain may depend on the thickness of the gel and percentage of agarose.

VisualaNA Compatibility

VisualaNA A has been tested for use with the following applications:

In gel staining, transformation, post-staining Ligation, gel extraction and transfection

Prior to setting, VisualaNA A/Agarose solution can be retained at 65°C for same day use.



VisualaNA A is non-carcinogenic but may cause skin and eye irritations. Always wear gloves when working with the product.