VisualaNA (DNA Staining Dye)

Cat No: DY-M-001-1000
Size: 1ml
Storage: Store at 4°C
For longer use, store at – 20°C
(Ready to use)

MOLEQULE-ON®

Description

VisualaNA 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, potential mutagen) for visualization of DNA or RNA in Agarose gel. VisualaNA is non-carcinogenic and causes significantly fewer mutations in the Ames-test and tests negative in both the mouse marrow chromophilous erythrocyte micronucleus test and mouse spermary spermatocyte chromosomal aberration test. VisualaNA is as sensitive as Ethidium Bromide and it is used in the same way as Ethidium Bromide in Agarose gel electrophoresis. VisualaNA emits green fluorescence when bound to dsDNA, ssDNA and RNA. This stain has a fluorescence excitation maxima when bound to nucleic acid at approx. 290-320 nm and emits at 515nm.

Features

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

Protocol

In Gel Staining

1. Prepare 100ml Agarose solution
2. Let solution cool down to 60-70ºC
3. Add 10µl VisualaNA
4. Mix gently (avoiding air bubbles) and cast the gel
5. After loading the samples, run gel via electrophoresis unit
6. View results under UV light

Post Staining

Please note: Although post-staining is possible, a loss in sensitivity may occur.
1. Run Agarose gel using TBE or TAE
2. Prepare post-stain solution using 25µl VisualaNA per- 100ml running buffer.
3. Incubate gel for 5-20minutes. Depending on thickness or concentration of gel.

VisualaNA Compatibility

VisualaNA has been tested for use with the following applications:
In gel staining, transformation, post-staining Ligation, gel extraction and transfection
Prior to setting, VisualaNA/Agarose solution can be retained at 65°C for same day use.

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