HealthView™ Nucleic Acid Stain

Cat. No.: S2GNM01g20001 (1mL/vial)

Recommended use: 5μL of ***HealthView™*** Nucleic Acid Stain for 100ml agarose gel solution

Storage: Store at room temperature for short term; store at 4℃ for two years.

Description:

HealthView™ is a new nucleic acid stain, an alternative to the traditional Ethidium Bromide (EB) stain for detecting nucleic acid in agarose gels. It emits **green** fluorescence when bound to DNA. This new stain has two fluorescence excitation maxima when bound to nucleic acid, one centered at 268 nm and another at 294 nm. In addition, it has one visible excitation at 491 nm. The Fluorescence emission of ***HealthView™*** bound to DNA is centered at 530 nm.

Protocol:

1. Prepare 100 ml of agarose gel solution (concentration from 0.8~3%) in a 250 mL flask and mix it thoroughly. Place the flask in the microwave, heat it until the solution is completely clear and no small floating particles are visible (about 2~3 minutes).
2. Add 2-5uL of ***HealthView™*** to the gel solution. Swirl the flask gently to mix the solution and avoid forming bubbles.
3. While the gel solution cools, pour it into the gel tray until the comb teeth are immersed about 1/4~1/2 into the gel solution.
4. Allow the agarose gel to cool until solidified. Load samples on the gel and perform electrophoresis.
5. Detect the bands under UV illumination.

Notes:

1. The thickness of gel should be less than 0.5cm since thick gels may decrease sensitivity.
2. Repeated melt of gels containing ***HealthView™*** Nucleic Acid Stain may cause low sensitivity.
3. ***HealthView™*** Nucleic Acid Stain allows visualization of DNA (>50 ng) in agarose gels under visible light. This eliminates the need for exposure to UV light, which can nick and damage DNA. The intact DNA fragments purified from agarose gel can increase the efficiency of

subsequent molecular biology manipulations such as cloning, transformation and transcription.

◎ **Revision History** ◎

Description	Version	Date
Initial Release	GN-NAS-100_Protocol_V1	May 2021
Catalog Number Adjustment	S2GNM01g20001_Protocol_V2	Jan 2025