Pre-stain protocol for GreenGlo™ Safe DNA Dye, 20,000X in Water

Denville Scientific

Abstract

GreenGlo ™, 20,000X in Water, is a non-carcinogenic and non-toxic alternative to Ethidium bromide used for the detection of nucleic acids in agarose gels. It is as sensitive as Ethidium bromide. There is no toxic DMSO as GreenGlo ™ is supplied in water.

GreenGlo ™ has fluorescence excitation maxima at 295 nm and 490 nm. The fluorescence emission maxima is similar to EtBr when bound to DNA – at 530 nm.

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Materials

GreenGlo™ Safe DNA Dye, 20,000X in Water, 500µl CA3600 by Denville Scientific Inc.

Protocol

PRE-STAIN

Step 1.

Add GreenGlo ™ to melted agarose when the agarose has cooled to 50 to 60ºC.

NOTES

Nicole Clouse 10 Dec 2016

If post-staining, follow the Post-stain protocol for GreenGlo™ Safe DNA Dye.

PRE-STAIN

Step 2.

Use 4-6 µl per 100 ml of agarose or 2-3 µl per 50 ml of agarose

NOTES

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IMPORTANT : GreenGlo ™ is supplied in 20,000X concentration in water

DETECTION

Step 3.

Detect bands under UV illumination (yellow or green gelatin- or cellophane filters is recommended for clearer bands) or non-UV LED illuminators such as Blue Light LED illumination.