HydraGreen™ Safe DNA Dye, 20,000X in Water

Product contents:
P/N: ACT-IDMG04
1x1ml or 1x20ul (Sample), **1ml HydraGreen Sufficient for approximately 400x50ml or 200x100ml agarose gels**

Introduction:

HydraGreen™, 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 also no toxic DMSO as HydraGreen™ is supplied in water.

HydraGreen™ 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.

Protocol:

Note: It is highly recommended agarose gel to be ≤0.5cm in thickness. TAE buffer system is preferred for higher sensitivity.

PRE-STAIN :
Wait for melted agarose to be cooled to 55ºC.
Add 4-6 µl per 100 ml of agarose or 2-3 µl per 50 ml of agarose, swirl and mix well.
IMPORTANT : HydraGreen ™ is supplied in 20,000X concentration in water

Or

POST-STAIN :
Use 10 to 15 µl per 100 ml of staining solution. Same as when using ethidium bromide. For an average gel thickness of about 0.5 cm, stain 30 minutes, followed by a destain of 30 minutes in water. Protect gel and staining solution from light with aluminum foil or place in dark.

DETECTION :
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.

Shipping and Storage Conditions :

Shipped in room temperature.
One year 4 degree or three months room temperature shelf life. Protect from light.

For Research Use.

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