

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

Product contents:

P/N: ACT-IDMG04

1x1ml

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:

PRE-STAIN :

Add HydraGreen™ to melted agarose when the agarose has cooled to 50 to 60°C.

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

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 7 mm, 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 (P/N: ACT-IDFL01, inquire for details).

Shipping and Storage Conditions :

Shipped in RT

Store in RT for short term (1 month), Store in 4°C for long term. Protect from light.