

## GREEN DNA-RNA-dye (20000x in water)

*High level sensitivity, substitute to ethidium bromide*

### Description:

GREEN DNA-RNA dye is a newly developed fluorescent dye for the detection of nucleic acids. It is applicable for staining of dsDNA, ssDNA as well as RNA. Sensitivity is comparable to ethidium bromide. GREEN DNA-RNA is non-toxic and ecofriendly and thus an uncompromising alternative to ethidium bromide. For staining, GREEN DNA-RNA can directly be added to the gel. Alternatively, staining is possible after electrophoresis.

### Features:

- Fluorescent dye for dsDNA, ssDNA and RNA
- 20000 x concentrated
- Supplied in water instead of DMSO
- Compatible with common ethidium bromide documentation systems
- Excitation with UV or blue light (excitation maxima 295 nm and 490 nm)
- Detection same as ethidium bromide (emission maximum 530 nm)
- Storage at 4 °C, light-protected
- 1 ml for approx. 400 x 50 ml or 200 x 100 ml agarose gels

### Protocol:

#### A. Pre-Stain

- Add peqGREEN to melted agarose when the agarose solution has cooled to 55 °C.
- Use 4 – 6 µl peqGREEN per 100 ml of agarose solution or 2 – 3 µl peqGREEN per 50 ml of agarose solution.
- Swirl gently to mix.

#### B. 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 5 mm, stain 30 minutes.
- Followed by destaining for 30 minutes in water.
- Protect gel and staining solution from light with aluminium foil or place in dark.

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

**Detection:** Detect bands under UV illumination or non-UV LED illuminators such as Blue Light LED illumination. (For UV illumination we recommend yellow or green gelatine- or cellophane filters for clearer bands.)

**Shipment:** at room temperature

**Storage:** at +4 °C for at least 12 months, protect from light

**Disposal:** GREEN DNA-RNA is not classified as hazardous waste. It can be disposed as regular laboratory trash in accordance to the local regulations.

### Ordering information:

Cat.-no	Description	Amount
P5000	Maximo Green DNA-RNA-Dye 1 ml (20000X in water)	1 ml
P5010	Maximo Green DNA-RNA-Dye 1 ml (20000X in water)	5x1 ml

GeneON .. a good decision ..

Contact Phone +49-(0)-621- 5720 864 Fax: +49-(0)-621-5724 462

E-Mail: <mailto:info@geneon.net> WEB: <http://www.GeneOn.net> Version: 10.2009 UK

Unless specified otherwise, all products of GeneON are sold for research use only.

.. a good decision ..