



## Product information

# Precast Agarose Gel with Eco-Green

Storage: 4°C

Cat. No.	Description	Quantity
TAE12-2PER-SF	Precast Agarose Gel TAE, 2%, 12 Well, Eco-Green Stained	20 gels/Box
TBE12-2PER-SF	Precast Agarose Gel TBE, 2%, 12 Well, Eco-Green Stained	20 gels/Box
TAE17-2PER-SF	Precast Agarose Gel TAE, 2%, 17 Well, Eco-Green Stained	20 gels/Box
TBE17-2PER-SF	Precast Agarose Gel TBE, 2%, 17 Well, Eco-Green Stained	20 gels/Box
TAE48-2PER-SF	Precast Agarose Gel TAE, 2%, 48 Well, Eco-Green Stained	10 gels/Box
TBE48-2PER-SF	Precast Agarose Gel TBE, 2%, 48 Well, Eco-Green Stained	10 gels/Box

### Product Description:

Eco-Green is a safe nucleic acid stain for the detection of double-stranded DNA, single-stranded DNA and RNA in Agarose gels. This dye replaces Ethidium Bromide (toxic, potential mutagen) for visualization of DNA or RNA in Agarose gel. Eco-Green is non-carcinogenic and non-cytotoxic. Eco-Green is as sensitive as Ethidium Bromide and it is used in the same way as Ethidium Bromide in Agarose gel electrophoresis.

Best results are achieved by using a optional fluorescence filter. Eco-Green emits green fluorescence when bound to dsDNA, ssDNA and RNA.

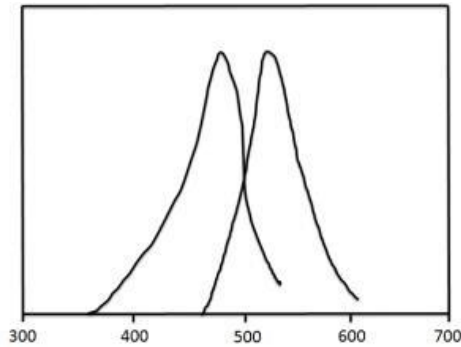
This stain emits maximum at 535nm.

### Features:

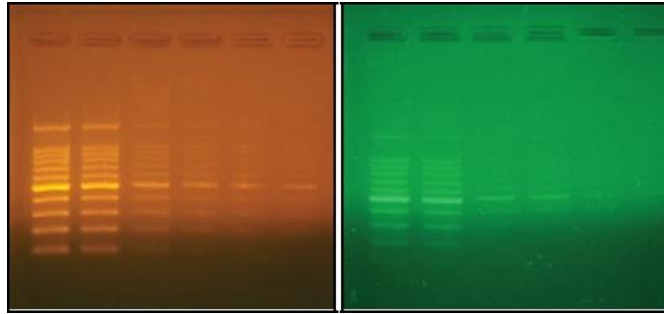
- 2% Agarose, 0.5X TAE, Eco-Green.
- Well Size:
  - Depth:* 5mm
  - Dimension of Well:*
    - 12 wells 6mm (l) X 1mm (w)
    - 17 wells 4mm (l) X 1mm (w)
    - 48 wells 8mm (l) X 1mm (w)
- Cassette Size:
  - 12 wells: 6 cm (l) X 10.8 cm (w) X 0.8cm (thick)
  - 17 wells: 6 cm (l) X 10.8 cm (w) X 0.8cm (thick)
  - 48 wells: 12 cm (l) X 10.8 cm (w) X 0.8cm (thick)
- Ready to use type.



**TAE12-2PER-SF:** Precast Agarose Gel TAE, 2%, 12 Well, Eco-Green Stained



**Figure 1.** Excitation (left) and emission (right) profiles of Eco-Green bound to dsDNA



**Figure 2.** Comparison of ethidium bromide (EtBr) and Eco-Green in precasting gel staining using agarose gel in TAE buffer. Serial dilution of 100 bp DNA Ladder (TAKARA) were loaded in the amount of 650 ng, 390ng, 130ng, 65ng, 32.5ng and 13ng. From left to right. Gels were imaged using UV transilluminator and photographed with 590 nm and 520 nm filter.

### Storage & Handling:

- DNA Pre-made Agarose gel can be kept for 6 months at 4°C.
- Keep container tightly closed in a dark and well-ventilated place.
- For laboratory use only.

### Caution:

- Use personal protective equipment. Wash hands at the end of workday.