PRODUCT INFORMATION

SERVA HiSens Stain G Cat. No. 39805

PRODUCT DESCRIPTION

SERVA HiSens Stain G is a nucleic acid stain to be used as a safer alternative ethidium bromide stain for highly sensitive detection of double-stranded or single-stranded DNA and RNA in agarose gels. SERVA HiSens Stain G has an excitation maximum at 250 and 482 nm, and an emission maximum at 509 nm. The stain is compatible with both conventional UV as well as blue light-based detection system, e.g. Bio-1000F scanner, SERVA BlueCube.

1 ml of this stain is sufficient for 10 L of agarose gel.

1. **Pre-casting protocol** (highly recommended procedure)**:**

- Prepare 100 ml of agarose gel solution and heat until the solution is completely clear and no small floating particles are visible.
- Add **10 µl** of the stain to the gel solution and mix it gently.
- Cool the gel to approx. 45 – 50 ºC and cast the gel into the gel tray.
- When the gel is solid, load the samples, perform electrophoresis (4 to10 V/cm, light protected) and detect the bands using either a blue light system (recommended) or an UV illuminator.

2. **Protocol for gel staining during electrophoresis:**

- Dilute SERVA HiSens Stain G 1:10,000 in running buffer.
- Perform agarose gel electrophoresis (light protected).
- Detect the bands using either a blue light system (recommended) or an UV illuminator.

3. **Post-staining protocol** (recommended for polyacrylamide gels):

- **Important:** Use plastic container for staining.
- Dilute SERVA HiSens Stain G 1:10,000 in TE, TAE, or TBE buffer.
- Perform agarose gel electrophoresis.
- Immerse the gel in the staining solution (1X) and incubate at room temperature for 10 - 30 min (light protected). Staining time varies with the thickness and percentage of the gel matrix.
  If needed, agitate the gel gently at room temperature to shorten staining time.
- Detect the bands using either a blue light system (recommended) or an UV illuminator.

Storage: Store at - 15 °C to - 25 °C, protected from light. Vers 12/17

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