



Protein Gel Stain (Rapid)

Cat. No: FA0050-1000

Description:

SDS-PAGE is one of the most powerful and commonly used techniques in molecular biology. However, traditional protein gel staining and destaining methods take several hours to finish and leave a high blue background on the gel reducing the detection sensitivity. **BIONOVAS protein gel stain** provides a fast and sensitive method for SDS-PAGE gel staining and water destaining. The procedure requires only 20~30 minutes for gel staining. A total of 30 minutes allow visualization of as little as 50 ng of protein on a water-clear background. The kit contains sufficient solutions to stain up to 40 pieces of protein mini-gels.

Method of Use:

- For mini-gels (10X8 cm), use 25 mL of each solution.
- For larger gels, increase the volumes appropriately to immerse gel to depth of ~1cm.
- Wash mini-gels in 200ml volumes of water.
- Agitate continuously during all steps.
- Glassware must be clean, and the water should be distilled.

Components:

Protein Gel Stain Solution , 1L

Methods and prodecures:

1. Remove the gel from the electrophoresis cell.
2. Wash the gel with 200 mL distilled water for 10-15 min.
3. Add **Directly** 25 mL protein gel stain solution to stain an 8 x 10 cm mini gel. Additional reagent may be required if a large tray is being used. *Completely* immerse the gel to insure even staining.
4. Gently shake tray. Stain intensity reaches a maximum within approximately 30 min. Gels may be stained overnight without increased background.
5. Replace staining solution with distilled water. Several water changes may be necessary for optimal results. This step enhances stain sensitivity.

Note: As little as 10~50 ng of protein could be observed at this point against a water-clear background.

IMPORTANT: This protocol is adjusted for 8 x 10 cm mini gel 0.75 mm thick. Longer procedure is need for thicker gel.

Sensitivity: 10 ng protein per band.

Storage and Stability:

- Store staining solution at room temperature.
- This product is guaranteed for one year from date of purchase when properly handled and stored.

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