

SeeBand Protein Staining solution

From Gene Bio-Application Ltd.

| Cat. No. | Description |
|----------|---|
| SB010 | SeeBand protein staining, 500 ml, sufficient for 20 mini gels |

Storage: Upon arrival, store at 4°C. Shipped at ambient temperature.

This product is guaranteed for one year from date of purchase when properly handled and stored.

Features

SeeBand protein staining solution guarantees protein staining in polyacrylamide gels with only slight fixation of the protein to the gel. This unique staining solution allows electro-elution of a desired protein from polyacrylamide gels (e.g. **Gel extraction and dialysis kit** Cat. No. GeBAT012 from Gene Bio-Application Ltd.), with high recovery yield. The staining solution also permits tracking the staining intensity in the course of the staining process with low background. No need for multi-step washing as required with other gel staining **procedures, when** using **SeeBand protein staining** solution. Washing uses water only, which further enhances staining sensitivity and provides a clear background.

Before you start

Mix the **SeeBand protein staining** solution vigorously.

Sensitivity: 38 ng protein per band.

Gel staining procedure:

Note: If fixation of proteins to the gel is require or to increase the sensitivity of the staining (10 ng), rinse the gel with 300 ml of ultra-pure water 1 x 10 minutes with gentle shaking, then add 30 ml of fixation solution (30% methanol, 10% acetic acid).

1. **Remove stacking gel from the separating gel.**
2. **Rinse the gel with 300 ml of ultra-pure water 3 x 10 minutes with gentle shaking.**

IMPORTANT: SDS interfere staining procedure; wash thoroughly.

This protocol is adjusted for 8 x 10 cm mini 10% SDS-PAGE (1 mm thick). Longer procedure is need for thicker or higher-percentage SDS-PAGE.

3. Add 20 ml of **SeeBand protein staining** solution to stain an 8 x 10 cm mini gel.

Additional reagent may be required if a large tray is being used. Gently shake tray. Stain intensity reaches a maximum within approximately 1 hour. Gels may be stained overnight without increased background.

4. For washing, replace staining solution with ultra-pure water.

Several water changes may be necessary for optimal results. This step enhances stain sensitivity.

Notes:

1. After using **SeeBand protein staining** solution, close tightly the plug and store again at 4°C.
2. For drying the gel after staining use the **Gel drying kit** Cat. No. GeBAC010 from Gene Bio-Application Ltd. to avoid gel cracking during drying.

Troubleshooting

| Problem | Cause | Solution |
|---------------------|---|--|
| No band development | Gel is > 1 mm thick | Longer immersion in the SeeBand protein staining solution |
| | Gel has high polyacrylamide concentration | Longer immersion in the SeeBand protein staining solution |
| | SDS interference | Before staining, wash the gel with plenty of water |