





FireRuth Staining Protocol

Materials

Contents

FireRuth fluorescence protein gel stain (concentrate) Staining Protocol

Required Materials

99% Ethanol Acetic acid Ultra pure water

- 1. Fixing After electrophoresis place the gel (7x8 cm) into a clean tray with 100 ml of the Fixing solution (30 % Ethanol, 10% acetic) for at least 30 minutes or over night.
- 2. Ethanol wash 3x Wash the gel in 20% ethanol for 30 min, repeat 3 times.
- Prepare staining solution: 2µl dye solution in 100ml 20% ethanol
 Note: the dye is light sensitive! Store the dye and the gel from this step in the dark.
- 4. Staining Incubate the gel in use FireRuth staining solution for 6h.
- 5. Water wash 2x Wash the gel for 5 minutes with 50 ml of ultra pure water, repeat once.
- 6. Destaining Destain the gel with 40% ethanol, 10% acetic acid for 15h.
- 7. Wash 2x 10 min in ultra pure water
- 8. Storage Store the gel in ultra pure water.
- 9. Scan the gel (The fluorescence dye has two excitation maxima, one at ~280 nm and one at ~450 nm, and has an emission maximum near 680 nm. Proteins stained with the dye can be visualized using a 300 nm UV transilluminator, blue-light transilluminator, or laser scanner.)

Note: all % are in v/v. Shake the gel during the process gently. Store dye cool and dark!

