

PROTOCOL FOR SYPRO RUBY STAIN:

***The following procedure uses a volume of 100mL per gel. A maximum of 5 gels should be allowed in a single tray. All steps can be performed at room temperature. Gently agitate the trays on a rotary shaker at low speed during all steps. Staining trays should be very clean and it is best to rinse with ethanol prior to use. Molecular Probes recommends the use of polypropylene dishes or polyvinyl chloride photographic staining trays for staining as they adsorb the least amount of dye.*

SYPRO RUBY IS A FLUORESCENT STAIN THAT MUST BE PROTECTED FROM LIGHT BEFORE, DURING, AND AFTER STAINING STEPS. TAKE CARE TO KEEP GELS COVERED DURING THE STAINING PROCESS.

1. After electrophoresis, fix 2D gels in 40% methanol, 10% acetic acid for 60 minutes. Fixing is not required for 1D SDS-PAGE.
2. Incubate gels in SYPRO Ruby Protein gel stain for 4 hours to overnight. Continuous, gentle agitation should be maintained during all staining and washing steps. For optimum results, stain gels in polypropylene, polycarbonate or polyvinyl chloride trays; glass trays will interfere with the staining procedure. (Gels can be stained overnight for convenience.)
3. Wash gels in 10% methanol, 7% acetic acid for 1hour. Repeat.

Gels are ready for imaging.