

## Coomassie Brilliant Blue (CBB) Staining

Prepare the following solutions separately:

1. 0.8% (w/v) CBB G-250 (1g to make 125 ml with ddH<sub>2</sub>O)
2. 32% (w/v) aluminum sulfate (use 312g 18-hydrated aluminum sulfate to make 500 ml)
3. 17% (v/v) orthophosphoric acid (use 100 ml of 85% orthophosphoric acid to make 500 ml)

To prepare the gel for staining:

Incubate the gel in H<sub>2</sub>O for 30 minutes with gentle shaking, change the H<sub>2</sub>O every 10 minutes.  
(This step will get rid of the SDS from the gel)

To stain one mini-gel, prepare the staining solution in the following order:

1. Add 20 ml of the aluminum sulfate solution to a staining container.
2. Add 35 ml de-ionized H<sub>2</sub>O, mix by swirling.
3. Add 20 ml ethanol, mix by swirling.
4. Shake the Coomassie Brilliant Blue solution and then add 5 ml of it to the container, mix by swirling.
5. Add 20 ml of the phosphoric acid solution, mix by swirling.
6. Put the gel in the staining buffer and incubate with shaking for 3-18 hours. Strong band should be visible within half 30 minutes.