### **Lab 1.2 Part B Separating Dyes using Gel Electrophoresis Protocol Using the Mini One unit**

1. Place the gray or white plastic base piece into the black carriage unit. Put the clear gel tank into the carriage unit. Place a 0.8 or 1% agarose gel on the gel tray into the mini one tank in the correct orientation (wells open on top and near the “-” electrode).

2. Pour 1X SB Buffer into the gel tank until the gel is completely immersed. This will be approximately 130ml for the mini one tank.

3. Set the P-20 micropipette to 10 μL, and using a fresh tip draw up 10µl of S1.

4. Dispense the S1 into one of the wells being careful to lower the pipette tip just inside the buffer but not in the well. Depress the plunger to the first stop and hold it there until pulling it out of the buffer.

5. Change the tip and load 10µl of S2 into a second well.

6. Change the tip and load 10µl of S3 into a third well. Be sure to draw a gel map in your notebook.

S1 S2 S3



7. Carefully place the amber hood over the gel tank.

8. Turn on the power supply. A green light will indicate that the unit is running. Make sure that tiny bubbles are coming off the negative electrode in the tank.

16. Run the gel until the colored bands separate. Draw and color the band pattern in the notebook. It is easier to see the bands if you remove the gel and place it onto the white laminated sheet used in Lab 1.1.