

## Using the BioRad Sample Pump

\*The purge button requires that the sample valve be set on System Pump Inject Loop  
Sample Pump Waste

\*\* to turn pump purge on/off you must press the purge button on the instrument

### Before Use

1. Place sample pump line into your buffer
2. Click injection valve on screen and select section option: System Pump Inject Loop  
Sample Pump Waste
3. Press Purge on instrument pump, this will run buffer through the pump at 10 mL/min,  
run for 2 minutes to fully purge pump
4. Press Purge button to stop pump
5. Carefully transfer the line to your sample
6. Press the purge button again and watch the line up to the pump so that any air bubbles  
from the line transfer go through the pump
7. When you see the air bubble pass the pump press purge again to stop
8. On the instrument pump switch the valve back to the first option: Manual Load Loop  
System Pump to Column
9. Run your program

### Cleanup

1. Cleanup pump- this is critical to avoid lysate etc. congealing in system
2. Transfer sample pump line into buffer
3. Click injection valve on screen and select section option: System Pump Inject Loop  
Sample Pump Waste
4. Press purge on instrument, run buffer for 1-2 minutes to clean out any excess lysate  
from lines, press purge to stop
5. Transfer sample pump line into water
6. Press purge on instrument, run water for 2 minutes, press purge to stop
7. Transfer sample pump line into 0.2-0.5 M sodium hydroxide
8. Press purge on instrument, run sodium hydroxide for 3 minutes, press purge to stop
9. Transfer sample pump line into water
10. Press purge on instrument, run water for 5 minutes, press purge to stop
11. On the instrument pump switch the valve back to the first option: Manual Load Loop  
System Pump to Column
12. Run pump wash program with water to clean out the entire system

### Troubleshooting

1. If something does not seem right, check the sample pump for air
2. Check the light on the left side of the system, if there is air blue light will be on, but the  
sensor is not perfect, so proceed with step 3 even if it is not lit up...
3. Connect a 60 mL syringe to the bottom of the sample pump

4. Twist the valve to open and gently pull to remove air, stop when syringe is full of atleast 10 mL of liquid
5. Close the valve while the syringe is still connected