

LSR II Startup Procedure

You must follow these steps whenever you turn on the LSR II. They take about 15', but the lasers require 30' total warmup time before you run your first sample.

1. Turn on the cytometer.
2. Turn on the computer. If it was already on, restart the computer.
3. Check the sheath and waste tank levels.
4. Make sure the sheath tank is pressurized. Check the vent/pressurize switch.
5. Take the tube off of the sample probe and throw it away.
6. Press PRIME with no tube on the sample probe. Wait for STANDBY to turn orange.
7. Press PRIME a second time and again wait for STANDBY to turn orange.
8. Put a fresh tube 10% Bleach (Red bottle) on and RUN on HIGH for 5 min.
9. Place a tube of Water (Blue bottle) on and leave with the arm open for 30 seconds.
10. Place a new tube of Water on and RUN on HIGH for 5 min.
11. While running water, look for bubbles in the filter and lines. Purge if you see any.

Before you run your samples:

- Always filter your samples as your final preparation step - immediately before placing on the machine through a 70um (or smaller) mesh. Do not filter your samples and let them sit! *If you can see ANYTHING in the tube, it WILL clog the machine!* Ask us for information on ordering appropriate filters.

While running your samples:

- Keep TOTAL events per second less than 10000. Higher clogs the machine and ruins data.
- Run a tube of water in between samples to clear out the line and prevent cross-contamination between samples. You need only run the water tube for a few seconds, during which you can name the next sample in the software or filter it.
- Visually monitor the sheath and waste tank levels.

LSR II Cleaning Procedure

After you run your samples - Clean the Machine!

1. Check the online scheduler to see if you are the last user on the machine, or if the next appointment is more than 3 hours away. If so, follow the Shutdown Procedure.
2. Put a fresh tube of 10% Bleach (Red bottle) on and RUN on HIGH for 5 min.
3. Place a tube of Water (Blue bottle) on and leave with the arm open for 30 seconds.
4. Place a new tube of Water on and RUN on HIGH for 5 min.
5. Put the machine in STANDBY, and leave the water tube on the machine.
6. Check the sheath and waste levels. Do not leave the sheath tank empty.
7. Save your data and log out of FACSDiva.

LSR II Shutdown Procedure

If you are the last person of the day or the next appointment is more than three hours away, shut down.

1. Follow cleaning steps 2-4 (5 min bleach, 30 sec water with open arm, 5 min water).
2. RUN a tube of FACSRinse (Green bottle) for 5 min on HIGH.
3. Place a new tube of Water (Blue bottle) on the machine.
4. Put the machine in STANDBY, and leave the water tube on the machine.
5. Check the sheath and waste levels. Do not leave the sheath tank empty.
6. Save your data and log out.
7. Turn off the cytometer. Turn off the computer.
8. Depressurize the sheath tank (pull the vent/pressurize switch).

Questions or problems? Just ask!

E-mail crm.flow.cytometry@gmail.com

or visit us in room 4310, Monday-Thursday 9AM-10PM, Friday 9AM-5PM.