

STANDARD OPERATING PROCEDURE – LSR II: **Start-up, Cleaning and Shutdown**

START-UP – Only if you are the **first user** of the day and the facility staff have not started the instrument.

1. Fill sheath and empty the waste tank if necessary.
2. Turn on LSR II. (Warm up time: 20 minutes)
3. Take the tube off the SIP and put the instrument into RUN mode.
4. Release clamp on sheath filter to remove any air bubbles from the main sheath line, then close the clamp.
5. Put the instrument into STANDBY mode.

BEFORE EACH RUN – ALL USERS

1. Fill sheath and empty the waste tank if necessary.
2. Check sheath filter for air bubbles. If needed, follow instructions above to remove.
3. Prime the system 2 times to remove any air bubbles in the flow cell.
4. Put a tube of DI water onto the SIP and run on MED for 5 minutes.

CLEANING AFTER EACH RUN – ALL USERS

1. In DIVA, add 3 new tubes and name “BLEACH”, “CLENZ”, and “WATER” for recording cleaning.
2. Insert a tube of 3 mL of 10% bleach or FACSClean. **RECORD** for 3 minutes on HIGH.
3. Insert a tube of 3 mL of Coulter Cenz. **RECORD** for 3 minutes on HIGH.
4. Push Sample Arm aside with 3 mL Coulter Cenz still on SIP, and run for 20 seconds on HIGH.
5. Insert a tube of 3 mL of dH₂O. **RECORD** for 3 minutes on HIGH.
6. Put the Instrument into STANDBY, leaving the dH₂O on the SIP.
7. Fill Sheath Tank and Empty Waste Tank down the sink with running water.
8. Put 50mL of Bleach into the Waste Tank.
9. All data is exported automatically to the FCS folder shortcut on the desktop as FCS 3.0 files.
10. Clean up any spills, throw away any garbage and take your belongings with you.
11. Check the instrument schedule to determine if you are the last user of the day. If so, continue with shutdown procedure.

SHUTDOWN OF THE LSR II – LAST USER OF THE DAY

There is no need to shut down between different users. Please check the online bookings schedule to confirm you are the last user of the day.

1. Follow the Instructions for **CLEANING AFTER EACH RUN**.
2. Turn off the LSR II.

DATA THAT IS OLDER THAN 1 MONTH WILL BE DELETED!

*****NEW: Deviations from SOP (INCLUDING FAILURE TO RECORD CLEANING) that result in instrument downtime or inhibit the next user from typical use will incur extra charges!***** Please see current billing policy for details.