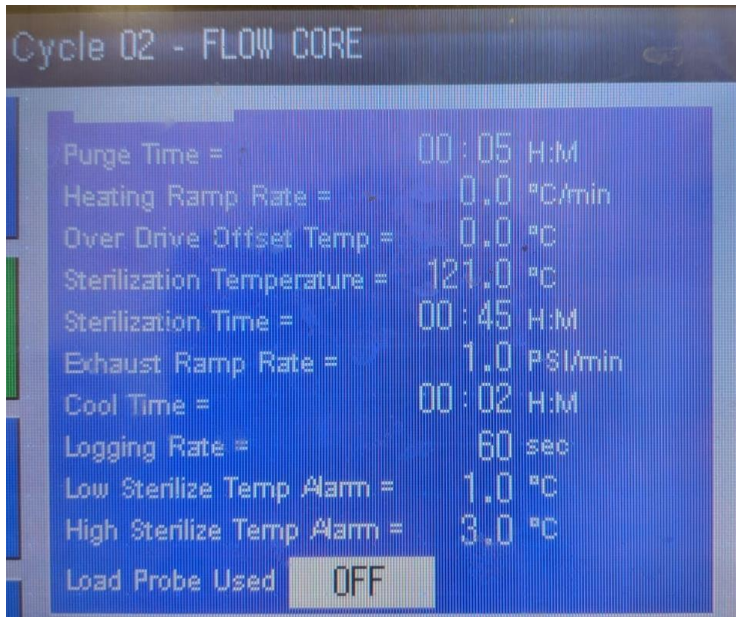


Prepare 1X PBS: Dilute 10X Leinco Technologies ClearSort sheath fluid (cat # S632) by adding 2L (half bottle) to 18L DI water in a 20L Aria carboy

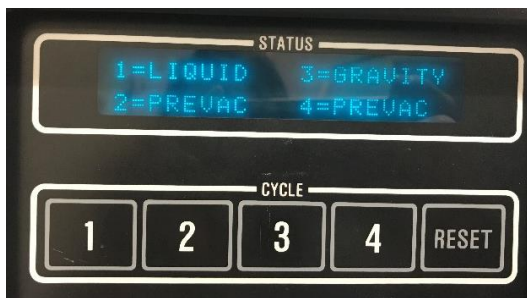
1. Disconnect sheath tank from Aria by disconnecting fluid, air and sheath probe sensor lines. Vent the air pressure from the sheath tank and transfer the sheath sensor probe to a new tank and install on Aria Fluidics cart
2. Unscrew sheath tank cover knob and remove lid. Fill empty sheath tank with 1X PBS up to the upper weld line on the inside of the tank.
3. Place lid back on sheath tank and screw cover knob until lid sealed
4. Wrap a piece of autoclave tape over the lid of sheath tank, securing on both sides of tank and covering the opening for the sheath probe.
5. Ensure pressure release valve is open and place tank in autoclave tray
6. Transfer sheath tank and autoclave tray to autoclave and select the program depending on location of autoclave (see below)

Autoclave, room E-397:



Autoclave, room E-363:

Run liquid cycle by selecting program 1 twice



7. When autoclave program is complete, open the door to the autoclave and let chamber vent for 30+ minutes to allow cooling
8. Wearing heat protective autoclave gloves, carefully transfer the tray and sheath tank to a cart. Use caution as there will be very hot liquid in the tray
9. When sheath tank has completely cooled, close pressure relief valve and secure the lid completely in place by tightening the knob.

Notes from the Emory EHS Biosafety Manual:

9.1 Heat

To kill microbial agents, heat can be applied in dry or wet form. The advantage of wet heat is a better heat transfer to and into the cell resulting in overall shorter exposure time and lower temperature. Steam sterilization uses pressurized steam at 121°C-132°C (250°F - 270° F) for 30 or 40 minutes. This type of heat kills all microbial cells including spores, which are normally heat resistant. To accomplish the same effect with dry heat in an oven, the temperature needs to be increased to 160°C -170°C (320°F- 338°F) for periods of 2 to 4 hours.