

### **ImageStream Long Term Shutdown**

#### **Initializing in 70% isopropanol**

1. Run the Shutdown script
2. After sterilization completes, remove Sheath bottle, empty PBS and replace with 70% isopropanol (70% IPA)
3. Place Sheath bottle with 70% IPA back into the instrument
4. For MKII only: Remove bead vial and empty remaining beads
5. For MKII only: Place 70% IPA into bead vial and put the vial back onto the system
6. Run Start Up script
  - a. For MKII only: uncheck the box "Run ASSIST after Initialization"
7. After instrument has finished initializing, stop fluidics
  - a. note core will not form because there are no beads and the sheath is 70% IPA

#### **Removing excess 70% IPA from the system**

1. Remove all liquid bottles (except Waste bottle) from the instrument, then empty and rinse
  - a. Sheath, rinse, debubbler, cleanser, sterilizer, and bead vial (MKII only) (do NOT remove Waste Bottle)
2. Place paper towels underneath all fluidic lines that were previously in bottles
3. Go to Fluidics tab in Advanced Controls
4. On the Sheath Pump, change Velocity to 150
5. Place Sheath Valve to Rinse
6. Click Empty on the Sheath Valve (Velocity Empty, not Relative Empty)
7. Observe liquid pouring out Rinse bottle fluidic line
8. Click Stop on Sheath Pump after 5 seconds
9. Change Sheath Valve to Reagent
  - a. Change Sample Flush Valve to Open
  - b. Change Core Valve to Open
10. Change Sample Valve to Cleanser
11. Click Empty on Sheath Pump, observe liquid pouring out of Cleanser line
12. Click Stop on Sheath Pump after 5 seconds
13. Change Sample Valve to Debubbler
14. Click Empty on Sheath Pump, observe liquid pouring out of Debubbler line
15. Click Stop on Sheath Pump after 5 seconds

16. Change Sample Valve to Sterilizer
17. Click Empty on Sheath Pump, observe liquid pouring out of Sterilizer line
18. Click Stop on Sheath Pump after 5 seconds
19. Change Velocity to 400 on Sheath Pump
20. Change Sheath Valve to Vent
21. Click Empty on Sheath Pump and empty the syringe of all liquid
22. Change Flush Valve to Rinse
23. Change Flush Pump Velocity to 150
24. Click Empty on Flush Pump
25. Click Stop on Flush Pump after 5 seconds
26. Change Flush Valve to Flush
27. Click Empty on Flush Pump
28. Click Stop on Flush Pump after 5 seconds
29. Change Flush Valve to Vent
30. Change Flush Pump Velocity to 400
31. Click Empty on Flush Pump and remove all liquid from syringe
32. For MKII only: Change Bead Valve to Flush
  - a. Change Bead Selector Valve to Waste
  - b. Change Bead Pump Velocity to 40
  - c. Click Empty on Bead Pump and remove all liquid from syringe
33. All syringes should be empty at this point
34. Next, ensure all valves and vent solenoids are in the "Blue" position
  - a. Empty and clean Waste Bottle
35. Place all clean, empty and dry bottles back onto instrument
  - a. Waste, Rinse, Sheath, Cleanser, Debubbler, Sterilizer, Bead Vial

**Additional Note**

When the instrument is ready to be restarted, fill the tanks with the appropriate fluids and run The Shutdown Protocol twice. Following that, Run the Startup procedure as normal.