



Extended Instrument Shut Down for Pion SDi2 Storage Guidelines

To safely store the SDi2, the following should be removed from the instrument, emptied, cleaned/flushed, and stored dry:

- Fluidics lines*
- Reagent and waste bottles
- Flow cells
- All accessories



*The fluidics lines should be flushed with 50% solvent (methanol, ethanol, or IPA) in DI water and then emptied and stored dry. To do this, complete the following steps:

1. Install the Whole Dose Flow cell into the instrument.
2. Place the rinse tube (blue) into 50% solvent in deionized water and perform a Flush of the system using the "Flush" function in the SDi2 Collection software (ensure that Whole Dose Cell is selected in the method tab).
3. Once the flush has completed, place all the fluidics tubes into the waste container, ensuring they are not submerged.
4. Open the Advanced tab and navigate to Whole Dose Pump:
 - a. Untick clockwise.
 - b. Set the current to 30.
 - c. Set the flow rate to 30 mL/min.
5. Start and stop the flow using the Start button adjacent to the flow rate setting with the following sequence:
 - a. In valve settings, tick valves 1 and 6 and start the flow. Stop the flow when the open loop tube (black) has emptied back to flow cell.
 - b. Tick valves 1, 6, and 7 and start the flow. Stop the flow when the primary solution tube (red) has emptied.
 - c. Tick valves 2, 6, and 7 and start the flow. Stop the flow when the secondary solution tube (white) has emptied.
 - d. Tick valves 3, 6, and 7 and start the flow. Stop the flow when the rinse solution tube (blue) has emptied.
 - e. Tick valve 4 and start the flow. Stop the flow when the drain tube (yellow) has emptied.
6. Navigate to Advanced tab > compact pump:
 - a. Untick clockwise.
 - b. Set the current to 30.
 - c. Set the flow rate to 5 mL/min.
7. Start and stop the flow using the start button adjacent to the flow rate setting with the following sequence:
 - a. Tick valves 4 and 5 and start the flow. Stop the flow when the drain tube (yellow) has emptied.
8. Turn off and unplug the instrument.