AutoSF-120 Cleaning Procedure

Overview: In order to effectively clean your AutoSF-120, solutions of 2N HCl and 2N NaOH are used to "push and pull" any coagulant in the flow-path and break it loose (speaking metaphorically from a pH standpoint). It has been found that the best way to do this is to force the cleaning solutions backwards through the system from the waste port syringe, through the observation cell and mixer, and back into the drive syringes. Once the system has been "primed" with a particular solution, allow that solution to remain in the system for 5-10 minutes, flush with copious amounts of di H2O using the load ports as normal, and load the next solution backwards into the system. Repeating this sequence at least 3 times ensures a clean and restriction free flow-path.

Supplies:
2N NaOH
2N HCl
diH2O

Steps:
1. Flush the system with diH2O.
2. Affix a syringe of 2N NaOH to the waste port (at least 3 mL)
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3. Open the stop valve under the "Motor" pane of the software.
4. Ensure the load/fire valve is in the "Fire" position. If not, move the valve to the fire position by pressing the valve button labeled "Load" in the motor pane of the software... It will change to "Fire".
5. Draw solution into the system by pressing and holding the "up" button until you see the solution being drawn into the drive syringes.
6. Move the Load/Fire valve to the "Load" position using the motor pane of the software.
7. Press and hold the "Down" button until you see solution coming up into the load ports from the drive syringes.
8. Allow the solution to sit in the system for 5 - 10 minutes.
9. Press and hold the "Up" button until all of the solution is drawn out of the load ports.
10. Put diH2O into the load ports and flush with diH2O by pressing "Flush" under the collection pane of the software. Repeat this flush at least 3 times.
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11. Affix a syringe of 2N HCl to the waste port (at least 3 mL)
12. Repeat steps 3 to 10 with 2N HCl.
13. Flush with diH2O using the load ports and "Flush" under the collection pane of the software.
Repeat this entire procedure at least 3 times.