

Job Aid

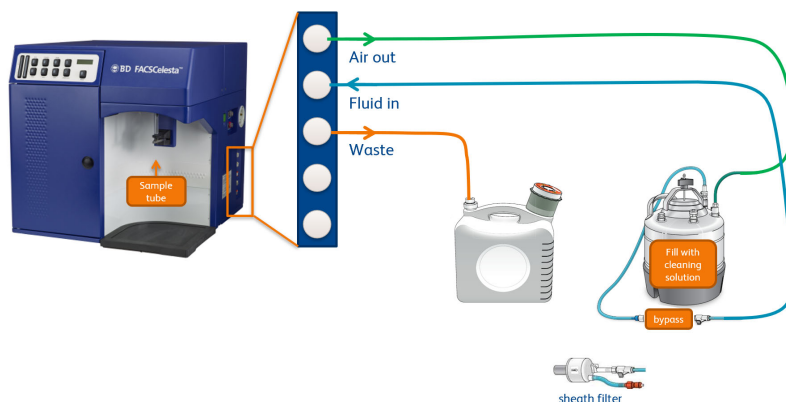
BD FACSCelesta™, BD LSRFortessa™, and BD FACSymphony™ Analyzer families: Flushing the system using standard fluidics

This job aid contains instructions for performing a system flush using standard fluidics on BD LSRFortessa™, BD FACSCelesta™, and BD FACSymphony™ Flow Cytometers. A system flush cleans the overall fluidics to remove debris and contaminants from the sheath and waste tubing and flow cell. Perform the system flush at least every two weeks. See your instrument's users guide for additional information.

Before you begin

You will need the following items:

- Stainless steel sheath tank
- 2 L of undiluted BD FACSClean™ Solution or a freshly prepared 10% bleach solution
- 2 L of 1.5% BD® Detergent Solution
- 4 L of deionized (DI) water



Bypass the sheath filter

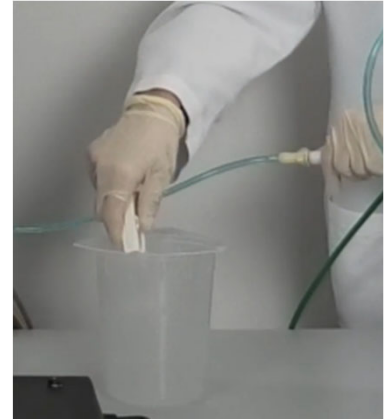
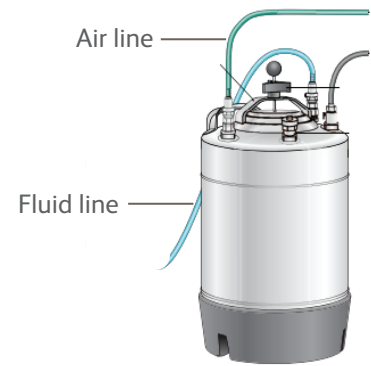
NOTE Do not run detergent, bleach, or ethanol through the sheath filter. These fluids can break down the filter paper within the filter body, causing particles to escape into the sheath fluid, possibly clogging the flow cell.

- ① Press the quick-disconnects on both sides of the filter assembly.
- ② Remove the filter assembly.
- ③ Connect the two fluid lines.
- ④ Empty the stainless steel sheath tank and rinse it with DI water. Empty the waste tank, if needed.



Flushing the System

- ① Fill the sheath tank with 2 L of undiluted BD FACSClean™ Solution or a freshly prepared 10% bleach solution.
- ② Connect the sheath tank. Open the roller clamp on the sheath line for about 10 seconds and drain the fluid into a beaker. Close the roller clamp.
- ③ Remove the DI water tube from the SIP and with the tube support arm to the side, press the PRIME button on the fluidics control panel and when the STANDBY lights, press PRIME again.
- ④ Install a tube with 3 mL of undiluted BD FACSClean™ Solution or a freshly prepared 10% bleach solution on the SIP with tube support arm underneath the tube and press RUN and HIGH on the cytometer fluidics control panel. Run for 30 minutes.
- ⑤ Press the STANDBY button, disconnect the air line (green) from the sheath tank and depressurize the sheath tank by lifting the vent valve. Dispose of any remaining solution and rinse the sheath tank with DI water.
- ⑥ Repeat steps 1 through 5 using DI water in the sheath tank and on the SIP to flush out the BD FACSClean™ Solution or 10% bleach.
NOTE Make sure to rinse the sheath tank with DI water and empty the waste tank before adding the next solution.
CAUTION Never mix BD® Detergent Solution or bleach because they can create chlorine gas.
- ⑦ Repeat steps 1 through 5 now using 1.5% BD® Detergent Solution, (dilute in DI water from concentrate) in the sheath tank and on the SIP.
- ⑧ Repeat steps 1 through 5 now using DI water in the sheath tank and on the SIP to flush out the detergent solution.
- ⑨ Reconnect the sheath filter and refill the sheath tank with sheath fluid.
- ⑩ Check for bubbles and purge the sheath line or sheath filter, if needed.



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