

Job Aid

BD FACSLyric™ System: Starting up the system and running a performance QC

This job aid contains instructions for starting up the system and running a daily performance QC. For additional information, see the *BD FACSLyric™ Reference System*.

Materials needed

The following items are needed to complete a system startup and performance QC:

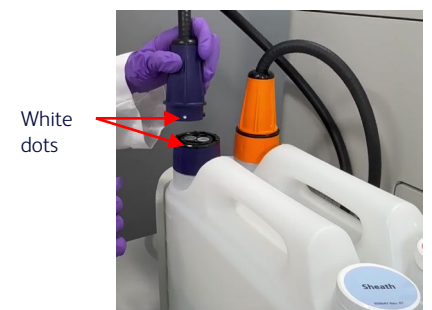
- BD FACFlow™ Sheath Fluid
- BD® CS&T Beads
- Bleach (5% sodium hypochlorite)
- Deionized (DI) water



Checking the fluid levels

Verify that your fluid levels are adequate to run the performance QC. Follow the steps below to fill your sheath tank and empty your waste tank if needed.

1. Disconnect the top blue connector from the sheath tank by twisting it to the left and set aside.
2. Unscrew the sheath filler cap.
3. Fill the sheath tank with at least 1 L of BD FACFlow™ Sheath Fluid.
4. Reinstall the sheath filler cap.
5. Reinstall the connector by matching the white dots, pushing it down, and twisting it to the right to tighten.



Emptying the waste tank



Caution! All biological specimens and materials can transmit potentially fatal infection. To prevent exposure to biohazardous agents, expose waste container contents to bleach (10% of total volume) before disposal. Dispose of waste in accordance with local regulations. Use proper precautions and wear suitable protective clothing, eyewear, and gloves.

1. Disconnect the top orange connector from the waste tank by twisting it to the left and set aside.
2. Unscrew the orange waste filler cap and dispose of the waste at the waste dumping station.
3. Add enough bleach to the tank for a final volume of 10% bleach.
4. Reinstall the orange waste filler cap.
5. Reconnect the connector by matching the white dots, pushing it down, and twisting it to the right to tighten.



Starting up the system

Turning on the cytometer and workstation

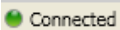
1. Press the power button on the right side of the system. If you have a BD FACS™ Universal Loader, verify that the cover is closed.
 - The power button turns green.
 - The cytometer status indicator begins blinking amber.
 - Sheath fluid is run through the system.
 - Lasers commence the 20-minute warmup.



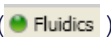
NOTE The order in which the workstation and the cytometer unit are turned on does not matter.

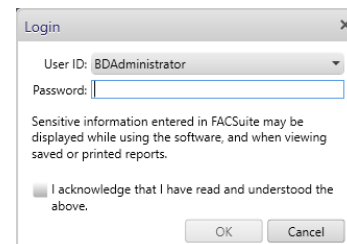
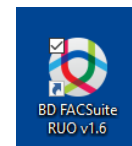
2. Press the power button on the PC workstation, and log into Microsoft Windows®.
3. Open the BD FACSuite™ Application by double-clicking the shortcut on the desktop.
4. Enter your User ID, password, check the acknowledge statement, then click **OK**.

NOTE If you do not have a password, use the BDAdministrator default password: bddadministrator

5. Verify that the software is connected to the cytometer by looking for the green Connected status icon () in the lower-left corner of the workspace.

NOTE It might take a few minutes for the software to connect. This does not affect the startup sequence.

6. Verify that the fluidics system is ready by looking for the green Fluidics status icon () in the lower-right corner of the workspace.



Running a Performance QC

Preparing the beads

Add 2 drops of well mixed BD® CS&T Beads to 0.5 mL BD FACSFlow™ Sheath Fluid.

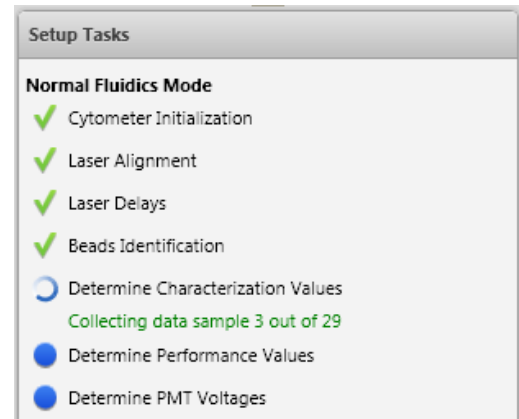
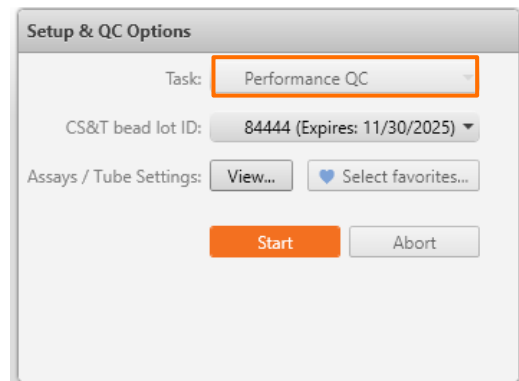
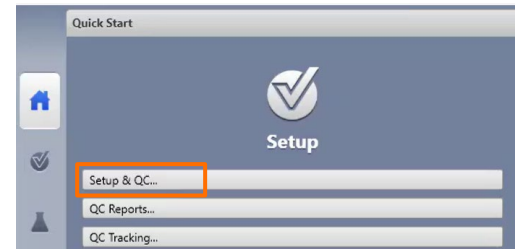


Running the performance check

1. On the navigation bar, click **Setup & QC**.
2. In the Setup & QC Options panel, verify that **Performance QC** is the selected task.
3. Verify that the bead lot ID matches the bead lot on your vial of beads.
4. Click **Start**.
5. Load the tube of BD® CS&T Beads onto the manual tube port.
 - The system detects the tube and prompts for confirmation of its contents.
 - The software displays details of the task in the Setup Tasks panel. Green checkmarks indicate that a step in the task has been completed.
 - When the performance QC task is completed, a completion dialog opens and requests the removal of the tube.
6. Unload the tube.
7. Click **Yes** to view the performance report.

NOTE If the setup tasks do not pass, or pass with warnings or notifications, refer to the *BD FACSLyric™ Reference System* for more information and recommended solutions.

8. Place a tube with 2 mL of DI water on the manual tube port.



This material is for training purposes.
For Research Use Only. Not for use in diagnostic or therapeutic procedures.

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