FACSaria SORP Standard Operation Protocol – System Startup

Initiating the Computer and the Cell Sorter
1. Check the sheath tank is full, waste tank is empty with bleach covering the bottom and the drain tray is in place.
2. Unplug the LAN cable of the Intranet connection.
3. Turn on the computer and dual-screen, and log into Administrator (password: BDIS)
4. Double click Cytometer Status icon on the desktop to start the program.

5. Press the main power switch on the left side of cytometer, and wait for its verification by the computing system.
6. Turn on the main power switch of the water bath.
7. Ensure that Cytometer IP address (192.168.1.1) displays on the Cytometer Status window before proceed to the next step
8. Double click BD Coherent Connection icon on the desktop to start the program.
9. Ensure ALL the lasers have been turned on successfully. For details please refer to FACSaria SORP - Basic Operation Step 1.
    *Lasers need at least 30 minutes to warm up.
10. Double click BD FACSDiva Software icon on the desktop to start the program.
**Login**

10. Log into FACSDiva software with *0cleaning* user name. No password is needed and Click ‘**OK**’ to login.

11. When connected, click ‘**Use CST Settings**’ if a mismatch was located.

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**Fluidics Startup**

12. Select **Cytometer > Fluidics Startup**. The following window appears.


13.1 Verify the air and fluid lines are disconnected from ethanol tank and connected to the sheath tank. Click ‘**Done**’
13.2 Install the nozzle stopper and insert the closed loop nozzle in the flow cell. Turn the stopper to 12:00 position and lock the closed loop nozzle in place. Click ‘Done’. The Fluidics Startup will initiate automatically. Wait until the progress bar reach 100% and next step is active.

13.3 Turn the stopper to 6:00 position and remove the closed loop nozzle from the flow cell. Place the closed loop nozzle at the holder next to the flow cell. Click ‘Done’.

13.4 Clean the 100μm-nozzle by sonication in Milli-Q water for less than 1 minute. Dry the nozzle thoroughly with Kimwipe paper. Insert the nozzle in the flow cell and turn the stopper to 12:00 position and lock it in place. Click ‘Done’.

14. ‘Fluidics Startup done’ will be displayed at the bottom right corner.

15. Install the deflection plates inside the sort block.

16. Start the stream as described in FACSARis SORP - Basic Operation Step 3.

17. Proceed to Cytometer Setup and Tracking (CST). For details, Please refer to FACS FACSARia I – CST.