

Making Cancer History®

# ADVANCED CYTOMETRY & SORTING FACILITY AT SOUTH CAMPUS

## **BD FACSCANTO II**

# QUICK GUIDE: START UP, QUALITY CONTROL, CLEANING AND SHUT DOWN

### **PROCEDURE**

#### 1.0 Start Up

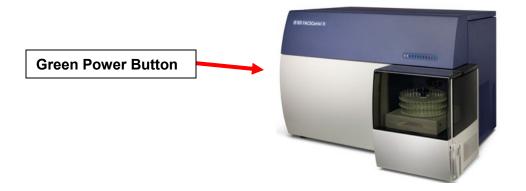
1.1. Check that the sheath cube is full, the waste tank is empty, and the FACS Flow Cart is on. Add 250 ml of bleach to the empty waste tank. If the sheath cube is low, remove the probe, replace the cube, replace the probe, and press "Restart" on the FACS Flow Cart.



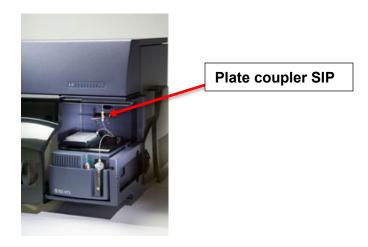
1.2. Turn on the computer. Log in to Windows as the Operator. The password is "BDIS". Double-click the DIVA icon to open the instrument acquisition software. Log in to the software.



1.3. Turn on the instrument system power by pressing the green button on the left side of the instrument.

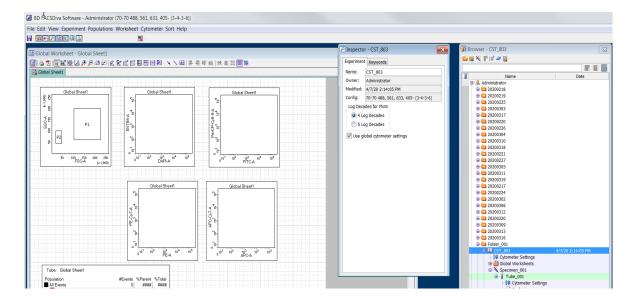


1.4. Ensure that the plate coupler is attached to the SIP and the sliding doors are closed. On the main tool bar select Cytometer > Fluidics Start Up and follow the prompts from the software.

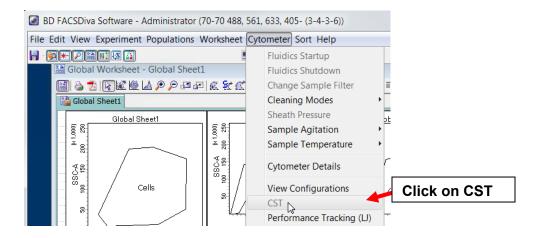


#### 2.0 QualityControl

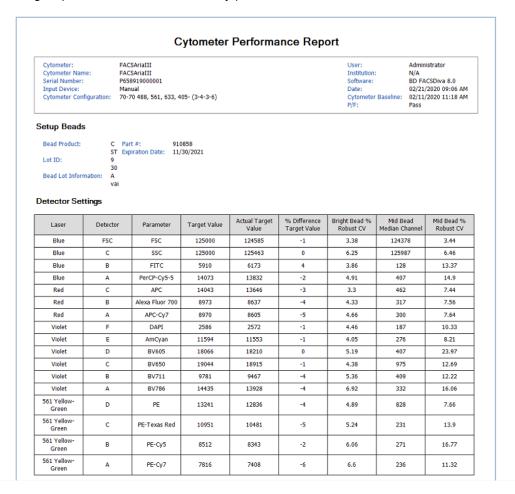
- NOTE: QC is run every weekday morning by Core staff, you need to run the QC only if Core Staff have not run it for the day. If you run the QC and if CST fails please contact Core staff via email or a note on the white board.
- 2.1. Open the CST experiment template from the Flow Lab folder. Disconnect the plate coupler and place the CST beads on the SIP. Click "Acquire Data" on the Acquisition Dashboard and verify that events are accumulating on the plot.



- 2.2. Continue acquiring data for long enough to verify that two scatter populations and three fluorescent populations are discernable. Click "Stop Acquisition" and remove the CST beads.
- 2.3. On the main toolbar select Cytometer > CST and wait until the cytometer connects to the CST software.



2.4. Ensure that the correct CST bead lot number is selected then click "Run". Review the Performance Tracking Report, and make a note of any problems or errors on the whiteboard.



- 2.5. Remove the CST beads from the SIP.
- 2.6. Exit the CST software and allow the instrument to reconnect to DIVA.

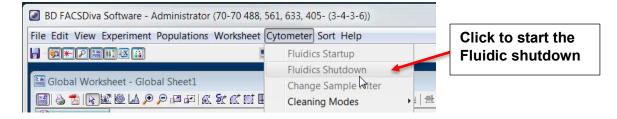
#### 3.0 Cleaning

- 3.1 Place a tube with approximately 3 ml of Contrad on the SIP and leave the sample arm open. Press RUN and HIGH and leave it for one minute. Close the sample arm and continue running for one minute.
- 3.2 Repeat this procedure using a tube of 10% bleach.
- 3.3 Repeat this procedure using a tube of diH2O.
- 3.4 Leave the diH2O on the SIP and place the instrument in STANDBY.



#### 4.0 Shut Down

4.1 Ensure that the plate coupler is attached to the SIP and the sliding doors are closed. On the main tool bar select Cytometer > Fluidics Shutdown and follow the prompts from the software.



- 4.2 Once shutdown is complete turn on fluidic cart power switch located on side of cart and close air valve on wall.
- 4.3 Turn off the instrument system power by pressing the green button on the left side of the instrument.
- 4.4 Exit DIVA and shut down the computer.

RELATED PROCEDURES		
This handout is related to ACSF SOP IN003 Please see the full SOP for further information.		
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