

# CYTEK® Aurora

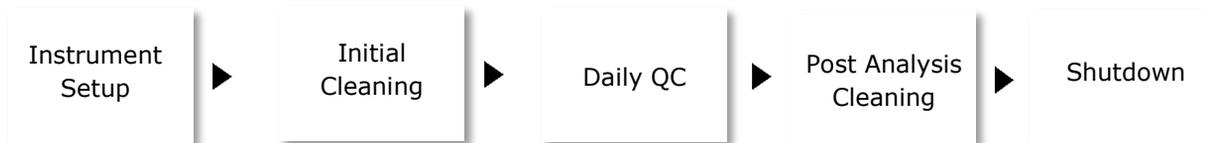
## Startup, QC, Cleaning & Shutdown Procedure



### Workflow Overview

Daily Procedure for CYTEK® Aurora

Ver. 2  
2022-11-09



### 1. Instrument Setup

Perform Initial Instrument setup if you are the first person of the day and:

- 1 Restart computer and Login through Windows.

**Username:** *My Aurora*

**Password:** *Welcome#1*

- 2 Check the fluidics.

✚ Check if there is sufficient sheath fluid in the sheath tank **(a)**. Sheath=Milliq H<sub>2</sub>O. Check if the waste tank is empty **(b)**. If not, empty it into the sink and add 500ml of bleach to the empty waste tank.

- 3 Make sure that a 5mL tube with H<sub>2</sub>O is present on the loading station (SIP) **(c)**.

**Note:** if the tube of water is not present, the cytometer itself will not connect.

a. sheath tank

b. waste tank



(c). loading station (SIP)



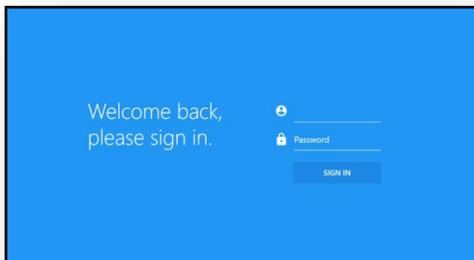
- Once computer is on - press the power button located on the left side of the CYTEK Aurora (d).

d. power button



- Launch SpectroFLO Software.

**Login name:**  
**Password: password1**



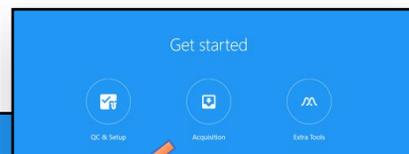
- When the cytometer & software are connected, verify that the software sheath & waste indicators are green (lower right corner).



## 2. Initial Cleaning

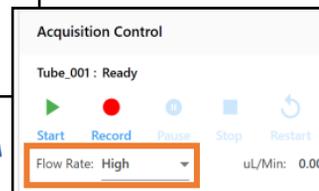
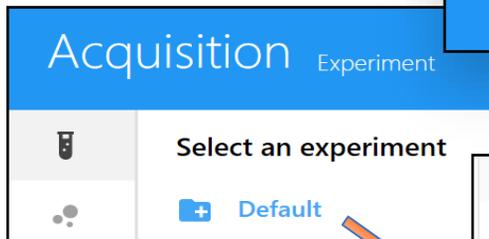
- Select *Acquisition* from the *Get started* screen.

✚ Select a default experiment.



- Place the following 5mL tubes and run on *high flow rate*:

- ✚ 10 min CLEAN (bleach)
- ✚ 10 min RINSE (detergent)
- ✚ 10 min H<sub>2</sub>O



## 3. Daily QC

**Note:** instrument needs to be on for at least 30 min before carrying out instrument QC due to laser warm up time.

- In SpectroFlo, select *Acquisition* and choose *Purge Filter*. Make sure the tube with water is loaded and click *Start*.

- Prepare calibration beads.

✚ Resuspend 1 drop of SpectroFlo QC Beads into 300  $\mu$ L H<sub>2</sub>O.

**Note:** Verify lot number.

✚ Place the 5 mL tube with beads onto the loading station (SIP).

300  $\mu$ L of PBS

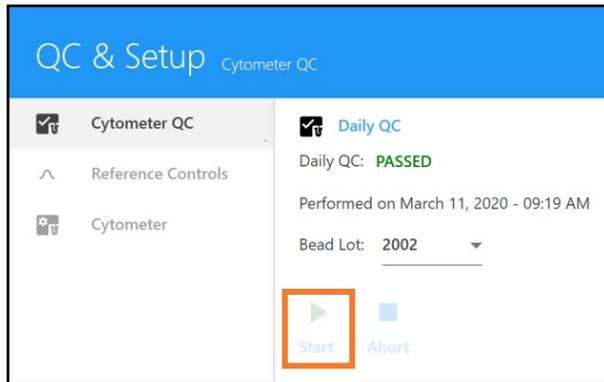
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- 3 Select the *QC & Setup* button and choose *Daily QC*. Make sure bead lot ID is correct and click *Start* (procedure takes 3-5 min to be completed).



When QC bead are loaded, the instrument will recognize the tube is present and the "Start" option will be enabled.

- 4 When Daily QC passes, the following message is displayed and will show on the report with a green check mark.

**Note: IF QC doesn't pass:** clean the instrument by carrying out *Clean Flow Cell procedure*. After that run a tube of water for about a min and attempt QC again. If that does not work, remake beads. **Notify Flow Core if there are any issues.**



## 4. Post Analysis Cleaning

- 1 Clean the analyzer after your experiment is finished. Go to *Acquisition* module, select *Clean Flow Cell* and follow on-screen prompts.

## 5. Daily Shutdown

Perform **Fluidics shutdown** if you are the last person of the day.

- 1 Turn off the Aurora's power button.
- 2 Clean the bench and surrounding workspace after using. Discard all the left-over tubes, gloves, and any other equipment that you have used before leaving.