

Guava Flow Cytometer - Troubleshooting "Tray Hold Off State"

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Abstract

Please contact Dr. Steven Wilhelm (wilhelm@utk.edu) for additional information regarding this protocol.

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Protocol

Step 1.

Open Millipore software to "home" (not in cleaning, InCyte, etc.)

Step 2.

Remove flow cell

NOTES

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The flow cell will break if it is not removed

Step 3.

Power off the flow cytometer (FCM) using the toggle switch on the back of the machine

Step 4.

Unscrew two torx screws in the tray bay at the top left and right, under the door to remove the top panel of the machine.

NOTES

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Torx size T - 10

Step 5.

Unplug the power supply and USB connection on the back of the FCM

Step 6.

Lift the front of the hood to $>45^\circ$, and slide the hood back away from the machine to free the back of the hood.

Step 7.

Pull the sampling tray forward to the "eject" position

NOTES

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This step may require some force

Step 8.

Reset the "motor/sensor" by carefully pushing the sensor to the bottom

NOTES

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There is an extra 'motor' in the drawer under the FCM in bubble wrap. Pull this out to practice moving the assembly prior to manipulating the machine. The sensor is marked as A on the extra motor.

Step 9.

Push the sensor part all of the way up

NOTES

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Take care not to bend/break the thin metal piece on the bottom of the sensor. You should manipulate the motor by pushing or pulling the black "L" shaped portion or the screw. Do not push/pull the metal strip to move the sensor.

Step 10.

Move the sampling tray as far back as it will go

Step 11.

Replace the hood in the opposite order stated in steps 4-7

NOTES

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You may wish to replace the screws after the machine initiates

Step 12.

Power the machine on

Step 13.

If FCM initiates (i.e., gears are moving etc.) continue; if not, check to make sure that the sample tray and sensor are in the correct positions (i.e., all the way to the back and top, respectively).

Step 14.

Open the cleaning program

Step 15.

Place the system in capillary shutdown mode

Step 16.

Replace flow cell

Step 17.

Operate as normal