

BRI Flow Core Accuri C6 Collection Protocol

Accuri C6 Collection Protocol

Log into computer as you would any other computer at the BRI.

The **Collect tab** is used to set data collection criteria, start and stop data acquisition, and view data on collected samples. The settings are used to collect a sample, configure the run settings and set up plots and gates.

1. Collect a Sample (Sample settings)

- Start the C6 Flow Cytometer, open CFlow and wait for the green “traffic light” message. If Accuri C6 is off, power on. Please be patient while it runs through start up procedure.
- Place sample tube on the sip.
- Configure the run settings:
 - Set the run limits (time, volume, even count, unlimited)
 - Select fluidics settings (low, medium, and fast)
 - Set threshold (primary and optional secondary parameters)
- Select a sample well in the grid and rename in open box above (optional)

2. Make a Plot (Set up template)

- Click on the Histogram, Dot Plot or Density Plot button. The plot shows the selected sample.
- Click the parameter name (FL1, FL2, FL3 or FL4) to rename parameters from the drop down menu.
- Click the Plot Spec button to change linear to log, set an axis range or change parameters.

3. Running Samples (Acquiring data)

- After selecting a sample well and renaming, click RUN in the CFlow software
- After sample is done recording, you can adjust the region of interest by using the “zoom tool.” Please see number 7 below.
- You may need to zoom out and refocus on a different area of interest on your plot other than the one selected for you by the software.

4. Save a File

- To save the samples and plots, select **Save CFlow File** from the **File** menu.

5. Make a Gate

- Click on a Marker button to draw a region to use as a gate.
- Click the gate button on the plot to which the gate should be applied.
- In the Gating dialog, choose which regions to Include, Exclude or Intersect and then click **Apply**.

6. Apply Color Compensation

- Click the Set **Color Compensation** button.
- In the Color Compensation dialog, select the parameters you want to compensate, and then enter the compensation percentages.

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- Apply settings to current or all samples.
- Click **Save & Close**.

7. Zooming In or Out on a Plot

- To zoom in on a plot, click the **Zoom In** button and encompass the region of interest using the cursor.
- Zoom can be used multiple times on the same plot.
- To zoom out on a plot, click the Zoom **Out** button to return to the previous view.

8. Exporting Data

- Analysis can be done in CFlow, FlowJo, or FCS Express.
- Under file menu, select Export All samples as FCS files
- Files will be saved in the desktop folder CFlow FCS exports by date.
- Save files to your zip drive and delete off of the desktop.

9. Cleaning the instrument after use

1. Put a tube of DI water on the SIP
2. Select any open well in the plate
3. Change run limits to time and set for 2 minutes
4. Run on HIGH.

10. Cleaning Terms

1. Backflush: Performs a backflush to eject sample from the SIP.
2. Unclog: Performs unclog cycle to purge the flow cell of debris.