BD FACSDiva Software Quick Reference Guide for BD FACSCanto Systems

This guide contains instructions for using BD FACSDiva™ software version 8.0 and later with the BD FACSCanto™ product family.

Workflow Overview

The following figure shows the daily flow cytometry workflow when using BD FACSDiva software.

Start Up System ▶ Check Performance ▶ Set Up Experiment ▶ Record Data ▶ Analyze Data ▶ Shut Down System

Before starting your daily workflow, ensure that your lab's software administrator has performed all the necessary tasks to set up the software for your use. This guide shows a workflow that uses application settings.

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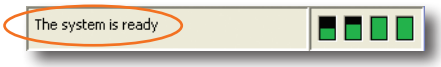
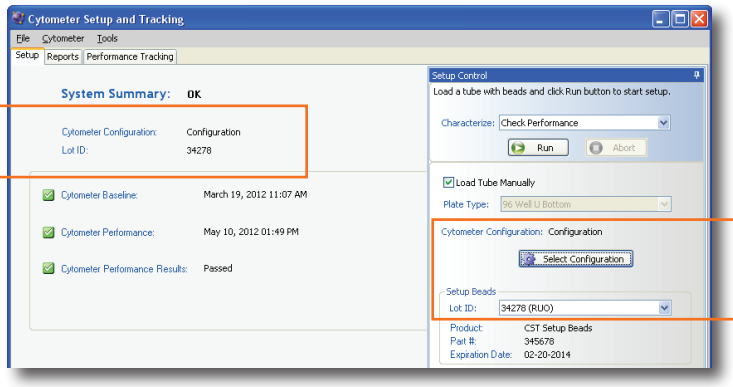
Starting Up the System

1. Turn on the cytometer main power.
2. Start up the computer, start BD FACSDiva software, and log in.
3. Check fluid levels in the Cytometer window.
4. Select Cytometer > Fluidics Startup if automatic cleaning is disabled.
5. Check the flow cell for air bubbles.
6. Check that laser warmup has finished, indicated by a ready status.



Checking Cytometer Performance

1. Select Cytometer > CST.



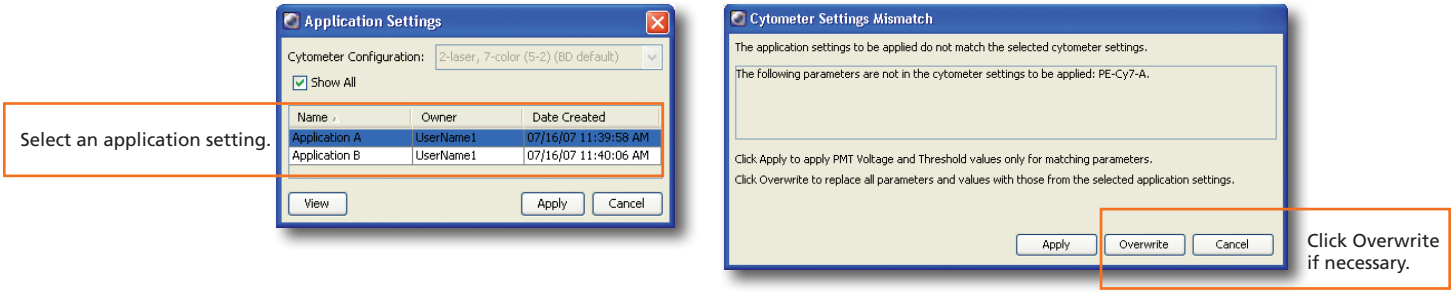
Verify the Cytometer Configuration and bead Lot ID.

If needed, select a different configuration or bead lot ID.

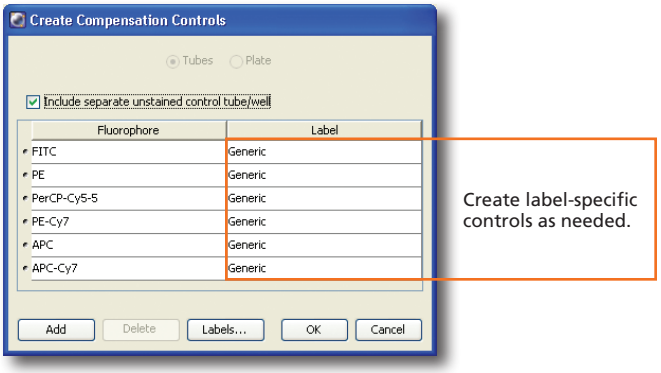
2. Run the BD FACSDiva™ CS&T research beads.
3. View the Cytometer Performance Report.
4. Close the Cytometer Setup and Tracking window.

Setting Up the Experiment

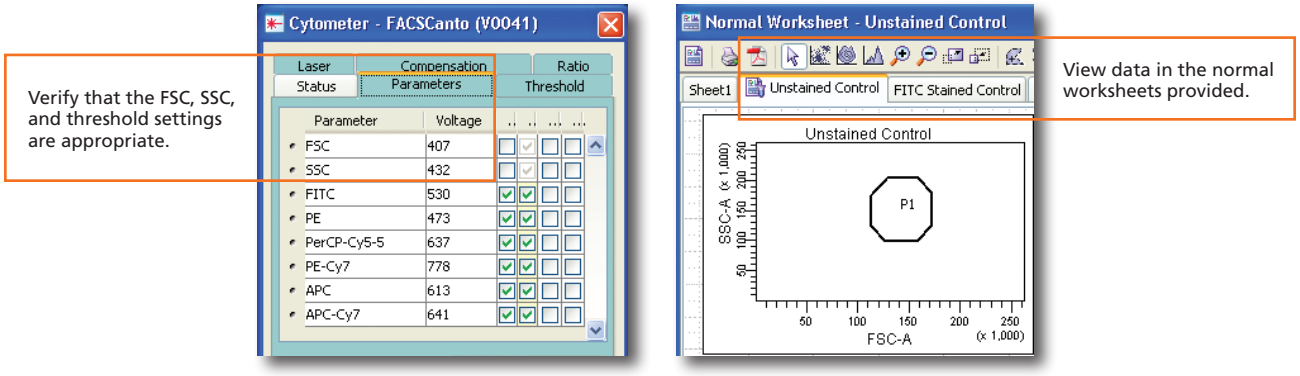
1. Select Edit > User Preferences and verify that selected preferences are appropriate.
2. Create an experiment in the Browser.
3. Right-click Cytometer Settings in the Browser. Select Application Settings > Apply.



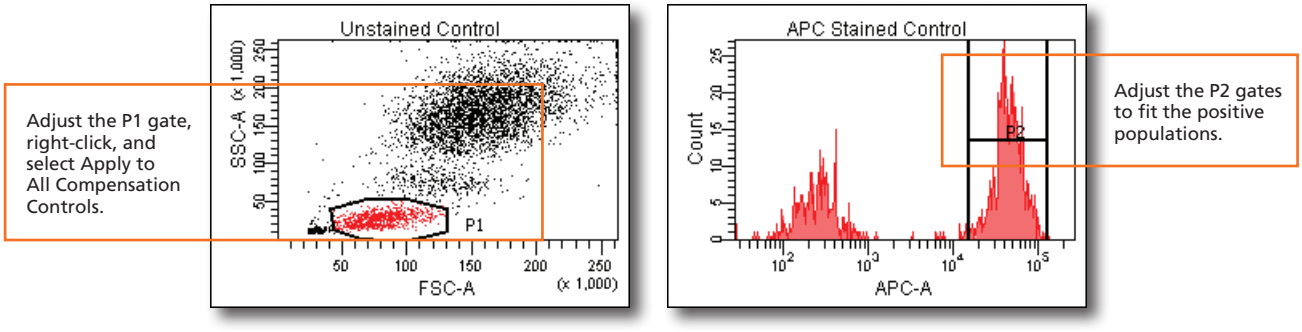
4. Select Experiment > Compensation Setup > Create Compensation Controls.



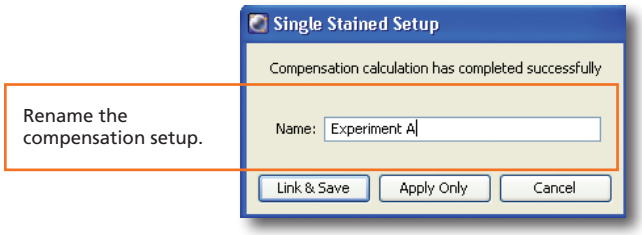
5. Install the unstained control tube onto the cytometer. Click Acquire Data.



6. Record data for the compensation control tubes.
7. View the recorded data and gate the positive populations.

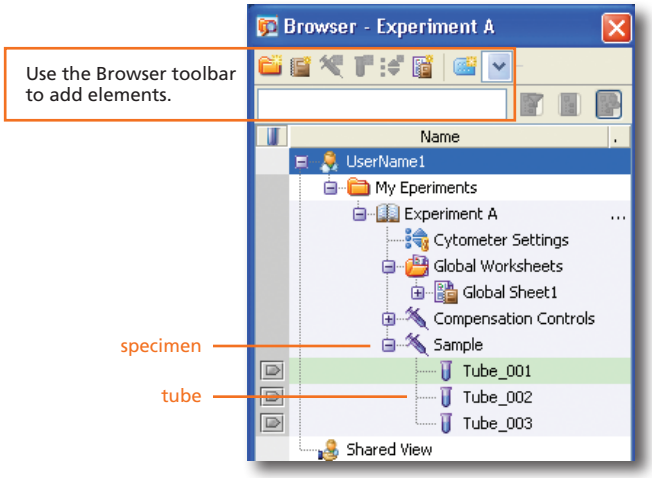


8. Select Experiment > Compensation Setup > Calculate Compensation.

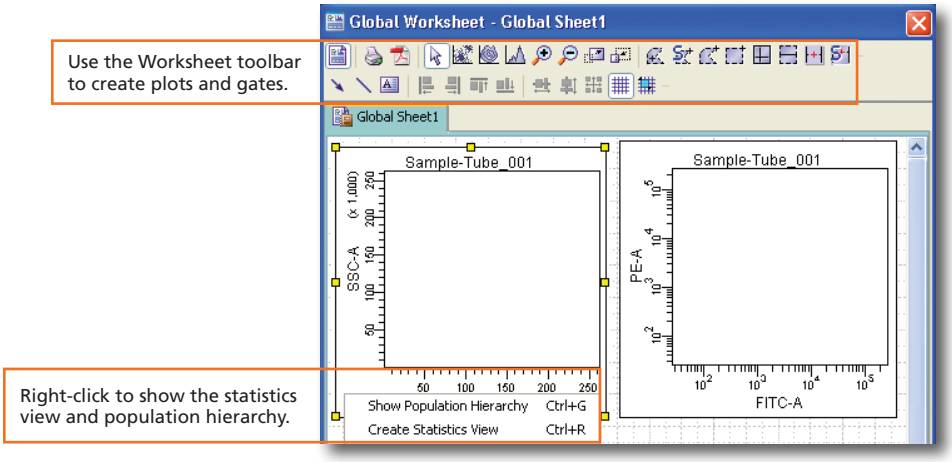


Recording Specimen Data

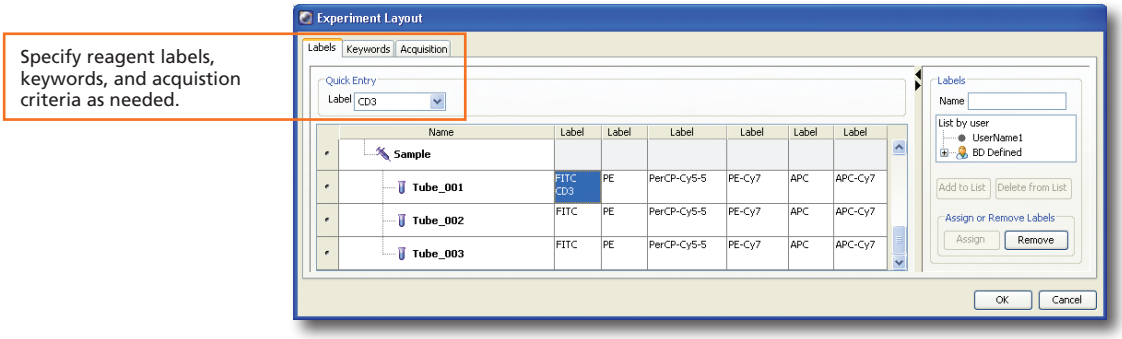
1. Create Browser elements.



2. Create plots, gates, and statistics needed for recording.



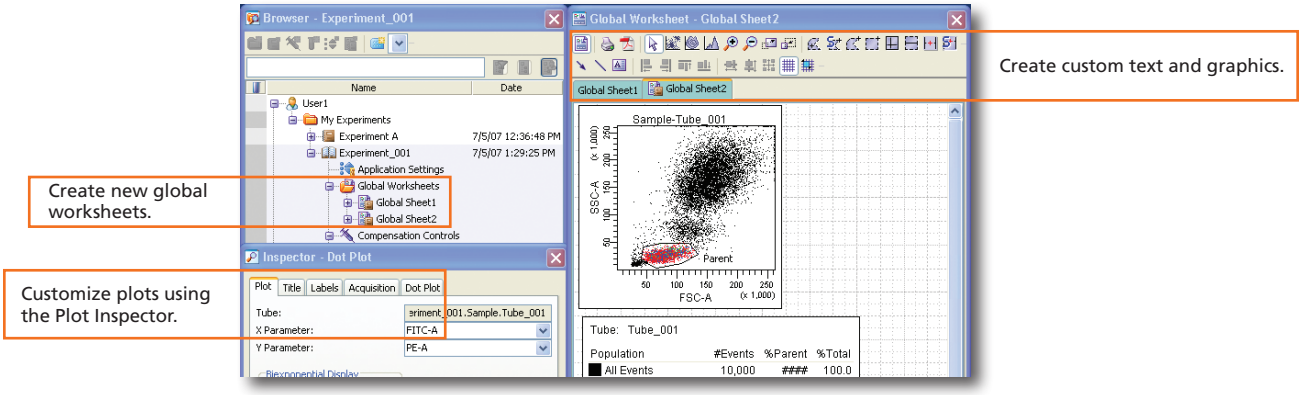
3. Make entries in the Experiment Layout.



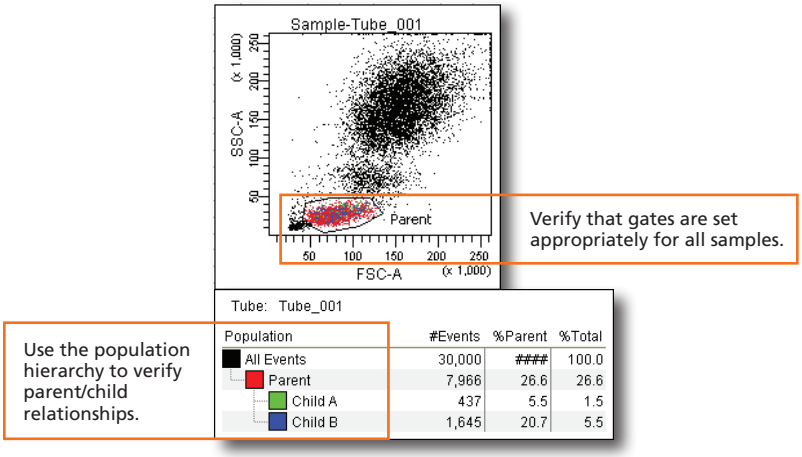
4. Record data.

Analyzing Data

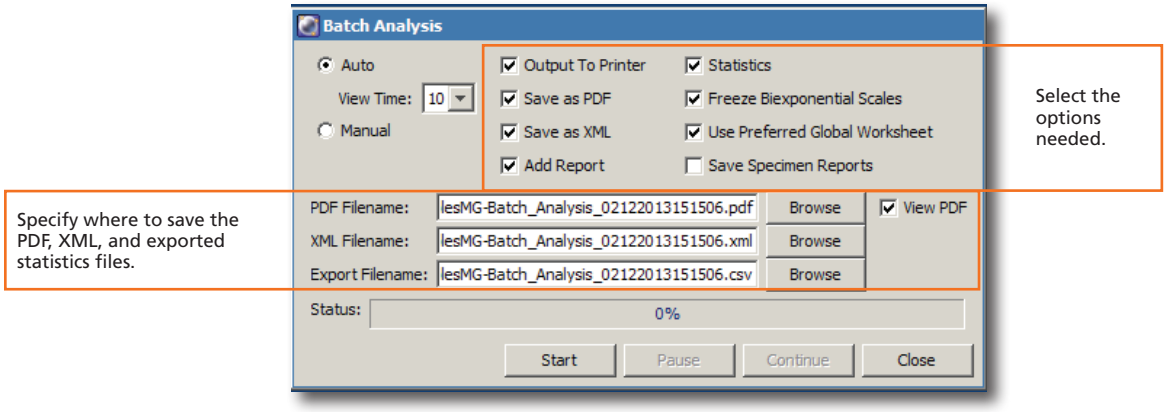
1. Create plots, gates, and statistics needed for analysis.



2. Verify the analysis.



3. Do one of the following to print or export the results.
   - Select File > Print to print the active worksheet.
   - Select File > Export to export selected elements.
   - Right-click a specimen or experiment and select Batch Analysis (using a global worksheet).



Shutting Down the System

1. Perform a fluidics shutdown.
2. Empty the waste and refill fluids if prompted to do so.
3. Turn off the cytometer main power and shut down the computer.