BD FACSDiva Software Quick Reference Guide for the BD LSR II or BD LSRFortessa

This guide contains instructions for using BD FACSDiva™ software version 8.0 and later with BD™ LSR II or BD LSRFortessa™ flow cytometers.

Workflow Overview

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

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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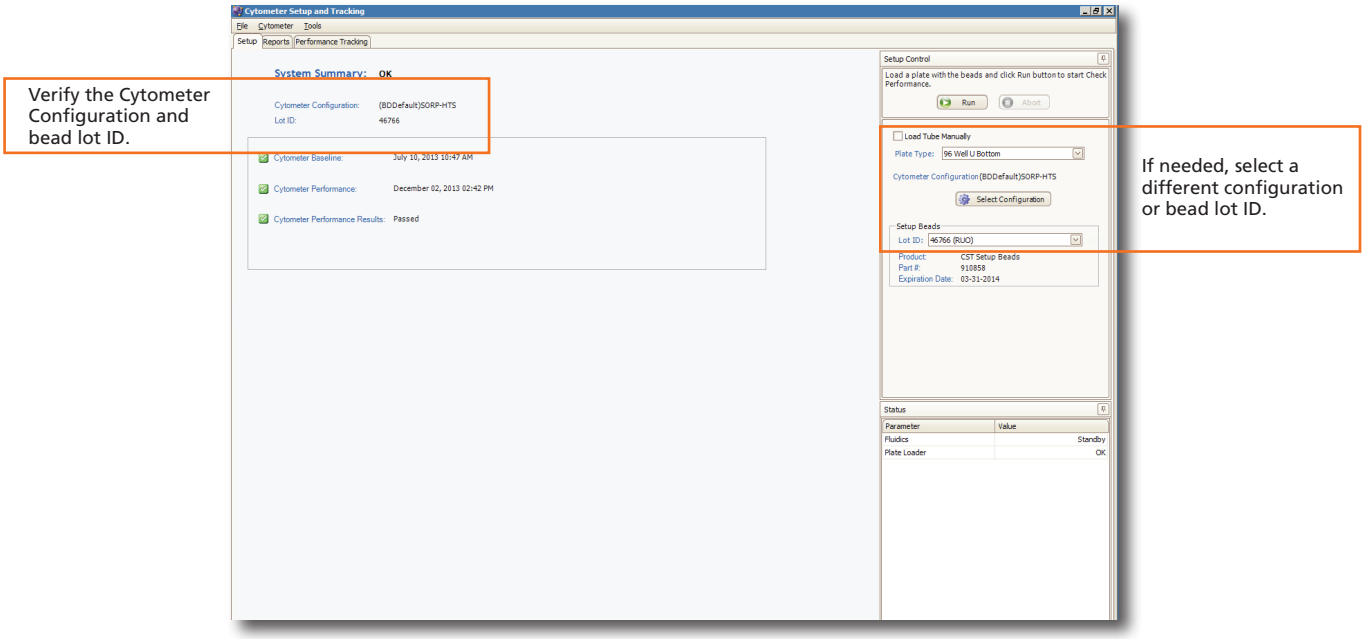
Starting Up the System

1. Start up the cytometer and computer.
2. Start BD FACSDiva software and log in.
3. Prepare the fluidics tanks and remove bubbles from the fluidics system.
4. Verify that the optical filters are appropriate for your experiment.

Checking Cytometer Performance

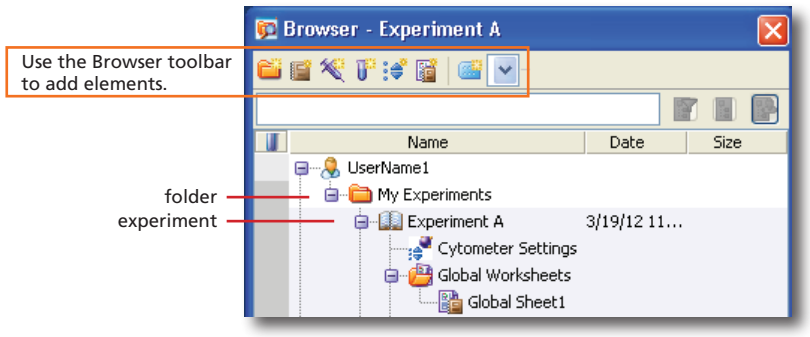
1. Select Cytometer > CST.



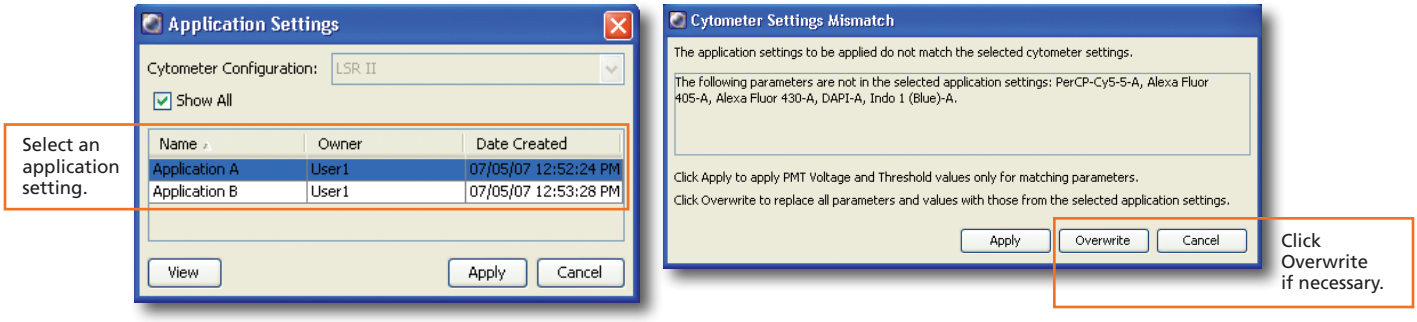
2. Run the BD FACSDiva™ CS&T research beads.
3. View the Cytometer Performance Report.
4. Close the Cytometer Setup and Tracking window.

Setting Up the Experiment

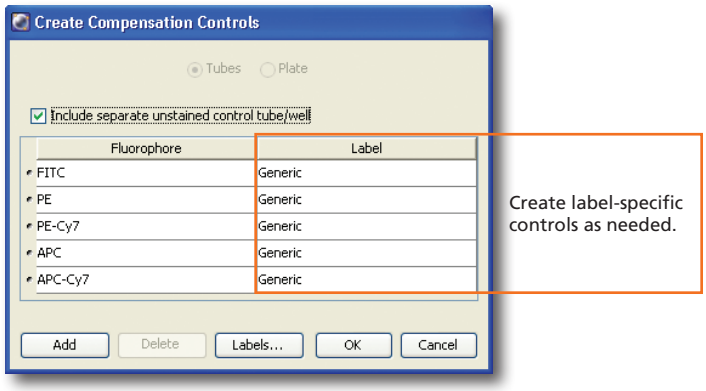
1. Create Browser elements.



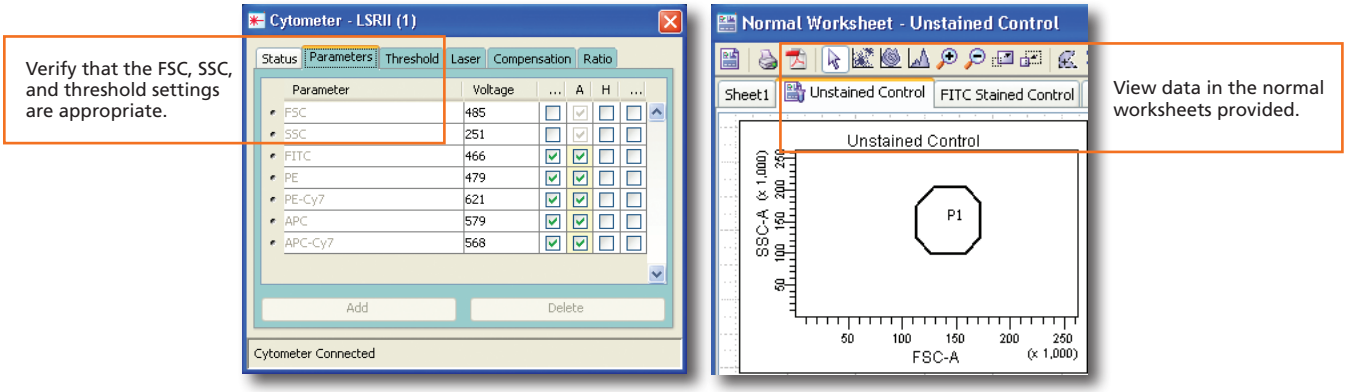
2. Right-click Cytometer Settings in the Browser. Select Application Settings > Apply.



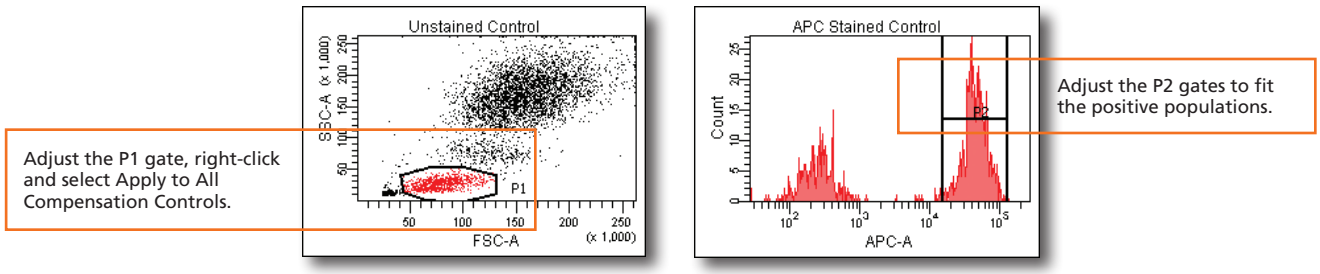
3. Select Experiment > Compensation Setup > Create Compensation Controls.



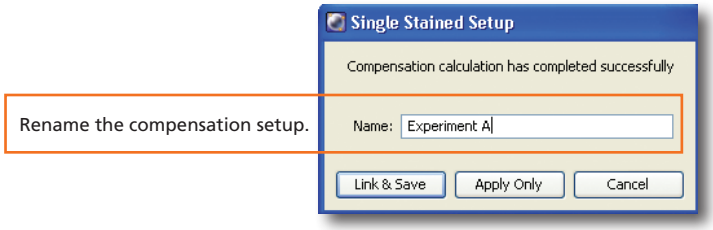
4. Install the unstained control tube onto the cytometer. Click Acquire Data.



5. Record data for the compensation control tubes.



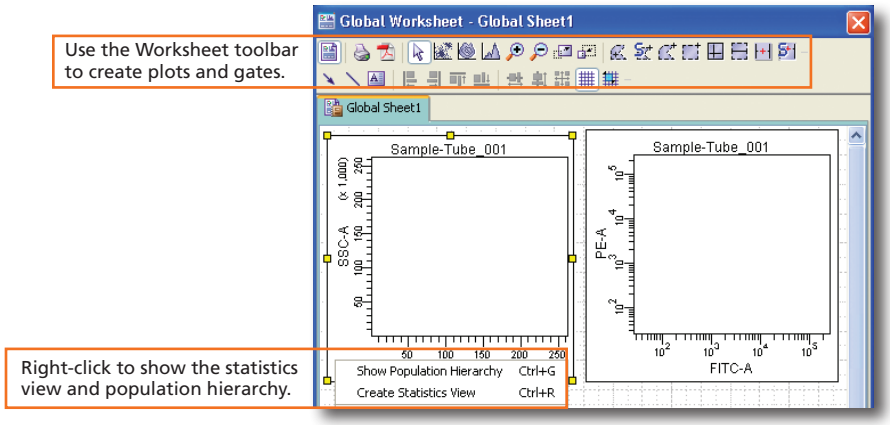
6. Select Experiment > Compensation Setup > Calculate Compensation.



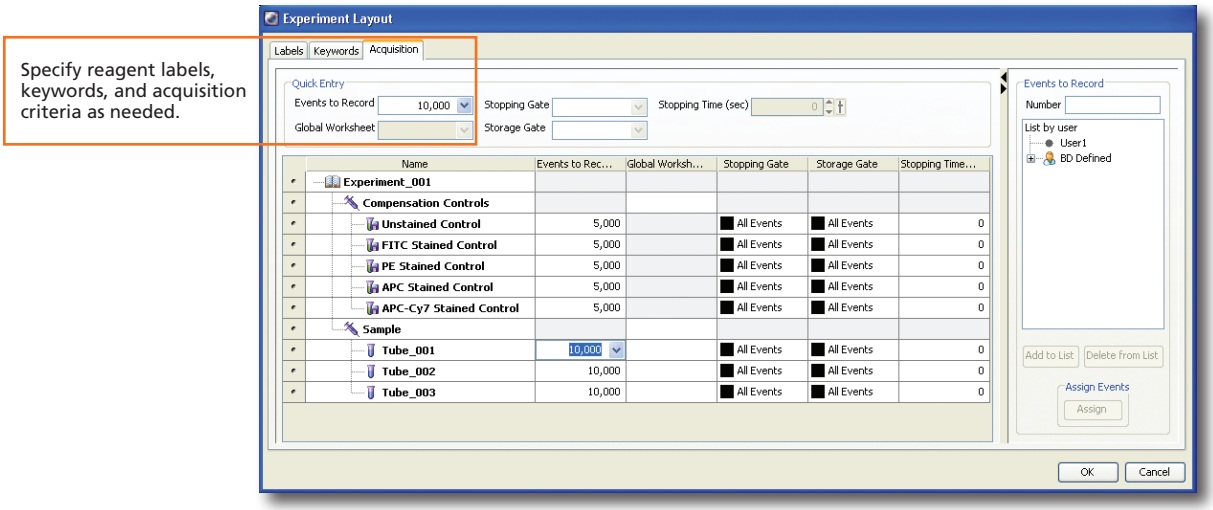
Recording Specimen Data

1. Create Browser elements.

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



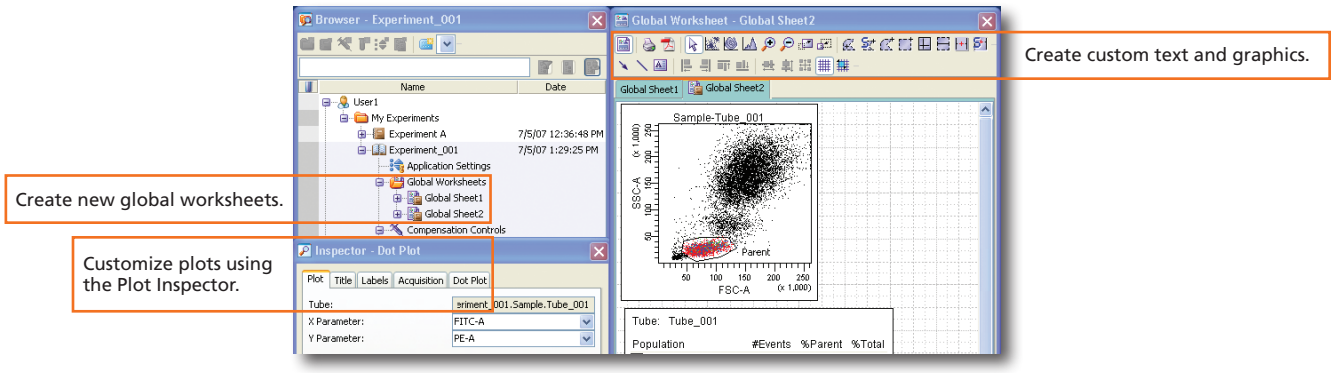
3. Make entries in the Experiment Layout.



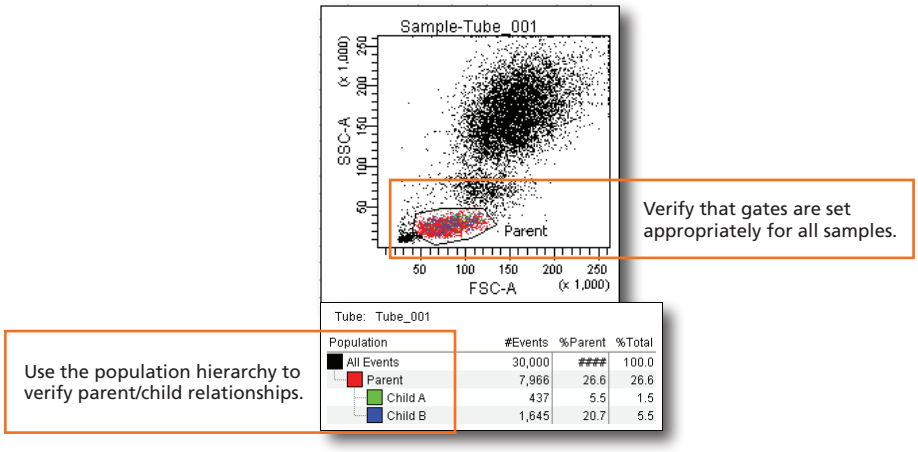
4. Record data.

Analyzing Data

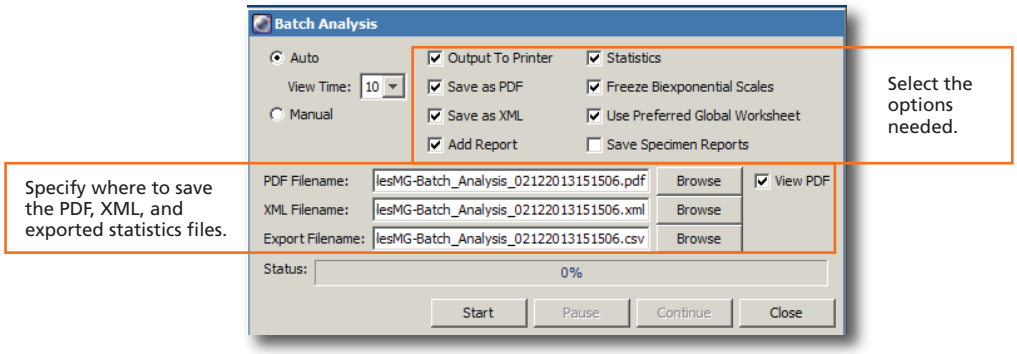
1. Create plots, gates, and statistics needed for analysis.



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. Clean the fluidics.
2. Select File > Quit.
3. Turn off the cytometer and computer.