Job Aid

BD FACSDiscover™ S8 Cell Sorter: Creating an experiment

This job aid contains instructions for how to create an experiment in BD FACSChorus™ Software. For additional information, see the *BD FACSDiscover™ S8 Cell Sorter with BD CellView™ and BD SpectralFX™ Technology user's guide*.

Start up system → **Set up experiment** → Establish settings → Sort and analyze → Manage data → Shut down system

Before you begin

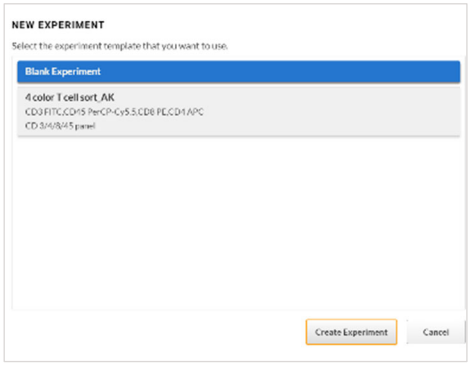
Start up the system and run a daily or extended fluidics startup procedure.

Creating an experiment

Adding an experiment

1. Click **Experiments** on the navigation bar.

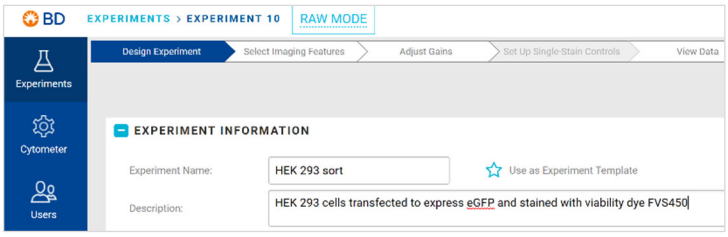
2. Click **+New Experiment.**
   - If you have previously created templates, select **Blank Experiment** in the New Experiment dialog, then click **Create Experiment**.
   - If you have not created templates, a new, default experiment is created.



Designing the experiment

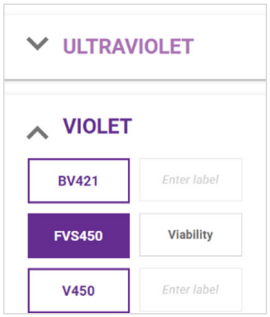
1. Enter an experiment name under Experiment Information.

2. Enter a description, if needed.



Designing the experiment, continued

3. In the Select Your Dyes panel, expand the laser rows to view the fluorochromes.

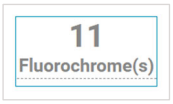


4. Select the fluorochrome names needed for your experiment.

5. (Optional) Click **Enter label** to add appropriate labels for each selected fluorochrome.

6. Select the **Autofluorescence Control** checkbox, if your experiment includes an autofluorescence control for your cells of interest. Otherwise, leave the checkbox cleared.

7. View the Fluorochrome(s) tally in the panel's upper right corner to verify that all needed fluorochromes have been selected.

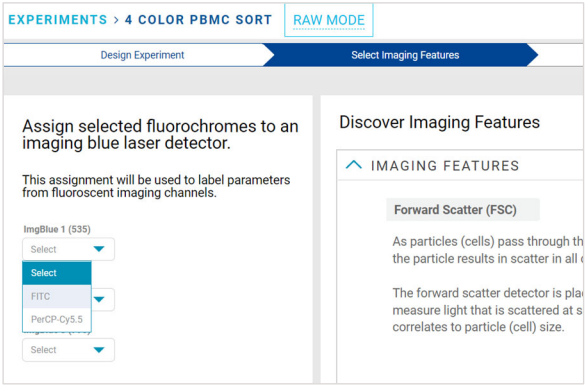


NOTE : An Autofluorescence Control increases the Fluorochrome(s) tally by 1.

Selecting imaging features

If your experiment contains any fluorochromes that are excited by the blue laser, you can choose to collect images and imaging feature data for those fluorochromes. For a non-imaging experiment, you can skip these steps.

1. Click the **Select Imaging Features** tab.



2. In the drop-down menus, assign a selected fluorochrome to the appropriate imaging detector.
   - Select ImgBlue 1 (535) for a fluorochrome emitting between 511–557 nm.
   - Select ImgBlue 2 (600) for a fluorochrome emitting between 570–560 nm.
   - Select ImgBlue 3 (790) for a fluorochrome emitting between 675–900 nm.

   NOTE Forward Scatter (FSC), Side Scatter (SSC), and Light Loss (Imaging) detectors are available by default and cannot be deselected.

3. (Optional) Click the arrows on the carousel to explore the different imaging features.

   Return to this page as often as needed throughout the experiment workflow to view these slides.

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