Job Aid

BD FACSDiscover™ S8 Cell Sorter: Creating an experiment

This job aid contains instructions for how to create an experiment in BD FACSChorusTM Software. For additional information, see the BD FACSDiscoverTM S8 Cell Sorter with BD CellViewTM and BD SpectralFXTM Technology user's guide.



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.



lank Experiment	
color T cell sort_AK D3 FITC.CD45 PerCP-Cy5.5.CD8 PE.CD4 APC D 3/4/8/45 panel	

Designing the experiment

- 1. Enter an experiment name under Experiment Information.
- 2. Enter a description, if needed.

😳 BD	EXPERIMENTS > EXPERIM		MODE				
즈 Experiments	Design Experiment	 Select Imaging Feat 	ures >	Adjust Gains	Set Up Single-Stain Controls	View Data	
्रि Cytometer	EXPERIMENT IN	FORMATION					
00	Experiment Name:	HEK 293 sort			🟠 Use as Experiment Template		
Users	Description:	HEK 293 c	ells transf	GFP and stained with viability dye FVS4	50		

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.
- (Optional) Click Enter label to add appropriate labels for each 5. 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.

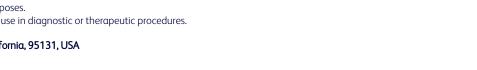
3. (Optional) Click the arrows on the carousel to explore the different imaging features.

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

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BD Life Sciences, San Jose, California, 95131, USA

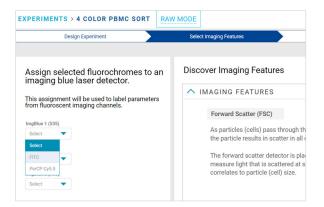
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Autofluorescence Control





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