Job Aid

BD FACSDiscover™ S8 Cell Sorter: Creating experiments from existing experiments

This job aid contains instructions for how to duplicate experiments, use templates, and import experiment files 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

You will need:

- Experiments and associated data saved in BD FACSChorus™ Software.
- Exported experiment (CEF) files and associated data.

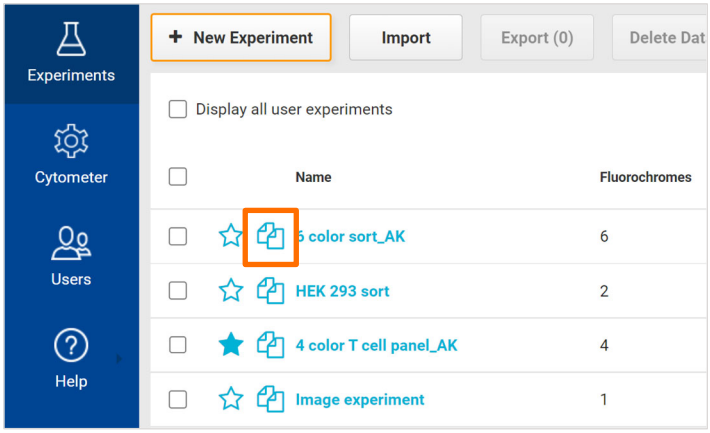
Duplicating experiments

1. Navigate to the **Experiments** page.

2. Click the **Duplicate without Data** ( ) icon next to the name of the experiment to be duplicated.

   A duplicated experiment is created and opened to the **Design Experiment** tab.

3. (Optional) Edit the experiment name and description.

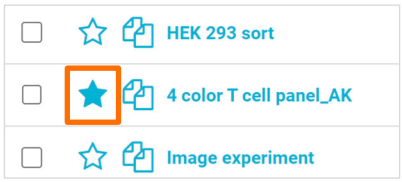


Creating and using templates

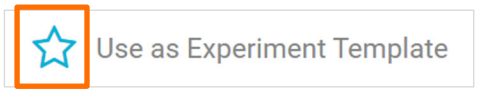
Creating a template

Templates can be created in two ways:

- On the **Experiments** page, click the star (☆) next to the name of the experiment.



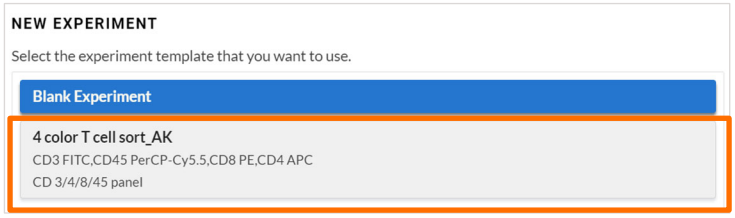
- In the **Design Experiment** tab, click the star (☆).



Using a template to create a new experiment

1. In the **Experiments** page, click **+New Experiment**.
2. From the dialog, select the experiment template of interest.
3. Click **Create Experiment**.

   A duplicated experiment is created and opened to the **Design Experiment** tab.

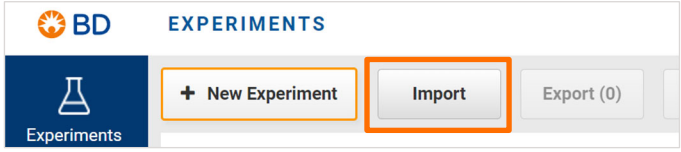


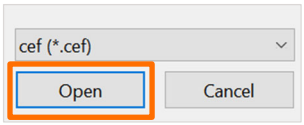
Importing experiment files

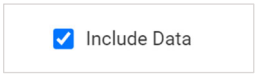
1. In the **Experiments** page, click **Import**.
2. Browse to the folder on the workstation that contains the Chorus Experiment File (CEF) of interest.
3. Select the CEF file and click **Open**.
4. (Optional) Clear the **Include Data** checkbox.

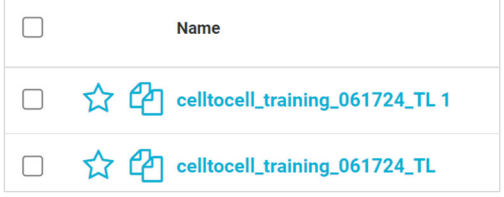
   If the experiment folder has data, the Include Data checkbox is selected by default.
5. Click **Import**.

   The new experiment is added to the list. If a copy of the experiment exists, the name of the imported experiment is modified automatically.









Comparing methods of repeating experiments

Recommended workflow

Using templates and duplicating experiments relies on existing experiments stored in BD FACSChorus™ Software. On a shared instrument, this workflow may lead to a larger than necessary database on the instrument workstation.

For good data management, we recommend regularly exporting and backing up data, including the Chorus Experiment File (CEF), and deleting experiments from BD FACSChorus™ Software. CEF files can be reimported as needed to repeat experiments.

Experiment component information based on experiment type

	Blank experiment	Duplicated experiment	Experiment created from template	Imported CEF without data	Imported CEF with data
Parameters, labels, and imaging detector fluorochrome assignments	User selects	Carries over but can be modified	Carries over but can be modified	Carries over but can be modified	Carries over and cannot be modified[1]
Detector gains	Based on Setup and QC	Updated based on Setup and QC	Updated based on Setup and QC	Updated based on Setup and QC	Updated based on Setup and QC
Threshold	Default	Carries over but can be modified	Carries over but can be modified	Carries over but can be modified	Carries over but can be modified
Image wall settings[2]	Default	Carries over but can be modified	Carries over but can be modified	Carries over but can be modified	Carries over but can be modified
Spectral unmixing	None	Carries over but can be modified	Carries over but can be modified	Carries over but can be modified	Carries over but can be modified
Plots and gates	Default	Carries over but can be modified	Carries over but can be modified	Carries over but can be modified	Carries over but can be modified
Experimental data	None	None	None	None	Yes
Acquisition dashboard settings[3]	Default	Carries over but can be modified	Carries over but can be modified	Carries over but can be modified	Carries over but can be modified
Sort reports	None	None	None	None	Yes

1. Labels can be modified for already selected fluorochromes.
2. Image wall settings include: Region of Analysis setting, Pixel Threshold settings, Channel Settings (Minimum, Maximum, Gamma, Smoothing, and Color selections), and channel checkbox selections.
3. Acquisition dashboard settings include: Recording criteria, flow rate, and agitation and temperature settings.

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