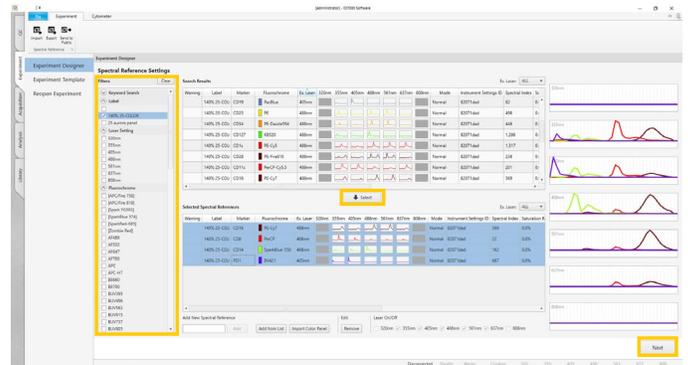


## ID7000™ Spectral Cell Analyzer Experiment Designer

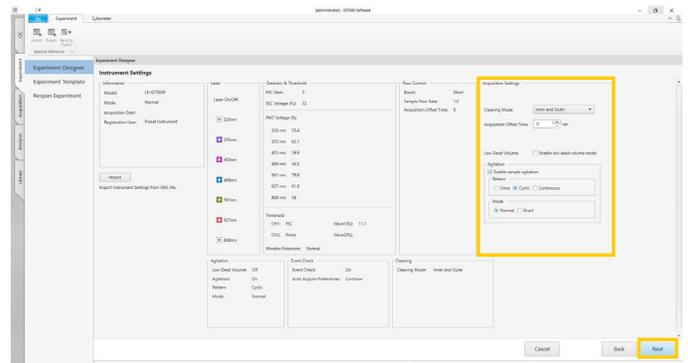
### Load Spectral References from the Library

1. In the **Experiment** tab, select the **Experiment Designer** option.
2. Filter the library results if desired. Select the spectra of interest and click **Select** to add them to your experiment.
3. Click **Next**.



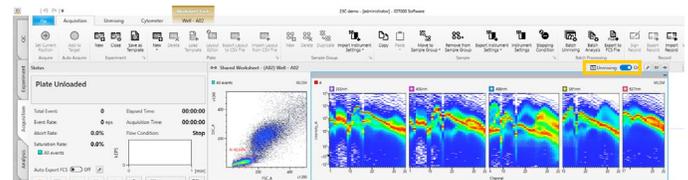
### Set up for Acquisition

1. In the **Plate Setting** window, select your sample input type (Tube Rack or Plate) and verify that the desired Spectral References are all correct. Click **Next**.
2. In the **Instrument Settings** window, adjust the Acquisition Settings as desired. Click **Next**.
3. In the **Acquisition Settings** window, select your desired run order. Click **Next**.
4. In the **Information** window, name your experiment and enter any other desired information about the experiment. Click **Next**.
5. In the **Experiment Preview** window, verify all experiment elements. Click **Create Experiment**.



### Record Sample Data

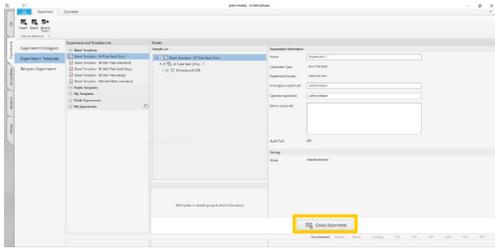
1. Add more tubes/wells to the experiment by right-clicking and selecting **Move to Sample Group**. Choose your target sample group.
2. Right click the new tubes/wells and select **Add to Auto Acquisition Target** to include the new tubes/wells to the auto-acquisition run.
3. If desired, apply the unmixing matrix for live unmixing by toggling on **Unmixing**.
4. Click **Preview** to view the fully stained sample and adjust the Instrument Settings using the **One Max** or **All Max** method as necessary.
5. Set the Stopping Condition, select the appropriate saturation gate, and click **Acquire**.
6. Click **Auto-Acquire** or preview and acquire all other samples, including the unstained sample.



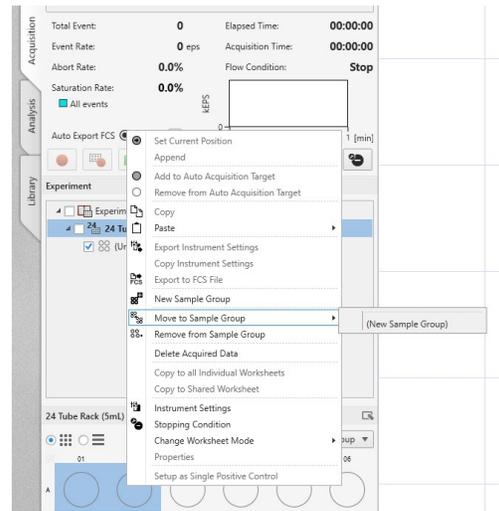
**One Max method (recommended when the available sample is low):** Use the Synchronous Voltage Adjustment to adjust all detectors simultaneously until the first max peak in any detector is near saturation.

**All Max method (recommended when the available sample is sufficient):** Perform this step after the One Max setup is complete. Adjust the remaining PMT voltages for each detector manually, aside from the One Max peak, by using the slider, mouse wheel, or typing to bring the first max emission peak in each detector to near saturation.

## Create New Experiment with Blank Template



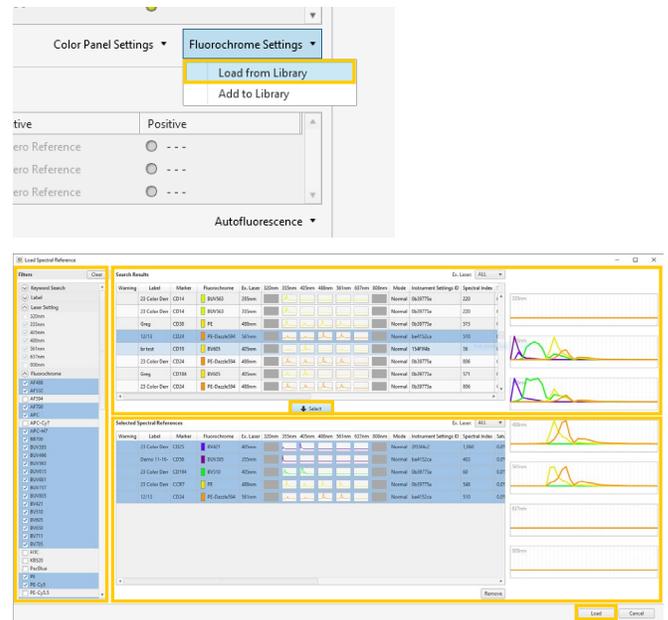
1. In the **Experiment** tab, select the **Experiment Template** option.
2. Select the **Blank Template** for the Tube Rack or Plate.
3. Name the experiment and click **Create Experiment**.
4. Create a Sample Group and assign your tubes/wells to the Sample Group.
5. Select the tubes/wells containing your samples and select **Add to Auto Acquisition Target** to include them in the auto-acquisition run.



## Load Spectral References



1. Click **Load Spectral Reference** in the taskbar. (Alternatively, select **Load from Library** in the **Unmixing Settings** window, under the **Fluorochrome Settings** menu.)
2. In the **Load Spectral Reference** window, specify the search criteria.
3. Select the Spectral References you'd like to load. Multiple selections can be made at once. Click **Select**.
4. The selections move to the lower **Selected Spectral References** pane.
5. When finished, click **Load**.
6. The selected Spectral References now populate the **Unmixing Settings** window. Click **Apply** to apply the unmixing to your data.



## Record Sample Data

1. Click **Preview** to view the fully stained sample and adjust the Instrument Settings using the One Max or All Max method.
2. Set the Stopping Condition and click **Acquire**.
3. Click **Auto-Acquire** or preview and acquire all other samples including the unstained sample.

**Note:** If the unmixing matrix was applied when spectral references were loaded, data will be unmixed in real time.

