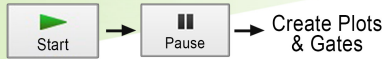


Create New Experiment

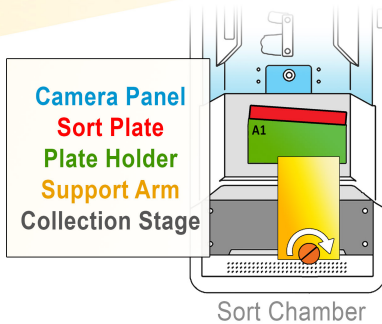
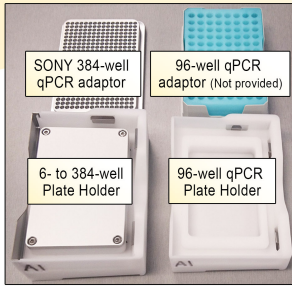
Follow Compensation Wizard

Preview Sample



- Follow *MA900 Tube Sort Guide* to create a new experiment and gate on sort populations
- For single-cell sorting, gate to exclude doublets & use a single-cell sort mode
- If needed, pre-chill any Plate Holders/Adaptors prior to use, and turn on sample chamber cooling.

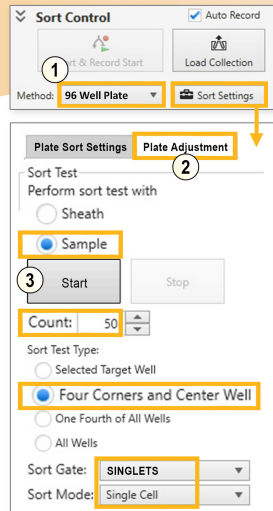
## Hardware Set-up



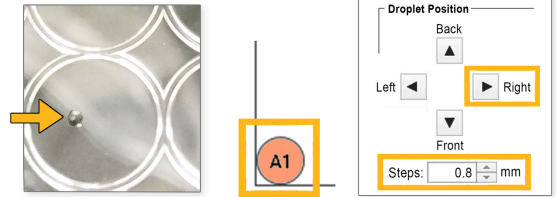
- 1 Mount Support Arm onto Collection Stage
- 2 Mount Sort Plate (with lid) onto Plate Holder
- 3 Mount Plate Holder onto Support Arm
- 4 Gently push Collection Stage inward to check clearance under the Camera Panel
- 5 Close the door

**Best practices:** Ensure the plate is completely seated in the Holder. Wipe the plate lid with 70% ETOH. If the plate lid is loose, set it in the same position for every plate alignment test

## Plate Alignment

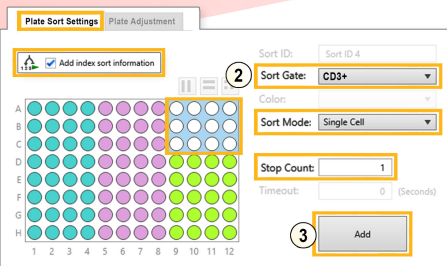


- 1 In the Sort Control panel, set Method to a plate format and open Sort Settings toolbox
- 2 In the Plate Adjustment tab, select the desired test settings
- 3 Click **Start** to do the sort test  
Once test sort completes, **Pause** sample and **Unload**
- 4 Remove the Plate Holder from the chamber to visually inspect the puddles on the lid  
Click each corner's Target Well & adjust the droplet puddle position to the well's center  
Wipe away the puddles & repeat the Sort Test



**Best practices:** See *MA900 Sort Modes Guide* to select the mode for your application. Align using the actual Sample & the Sort Mode as for the real sort. For rare targets, align with a similar sample or a higher % gate. For 384-well plates, align from the Plate Sort Settings tab with 4 wells per each corner.

## Plate Sorting



- 1 Remove plate lid & close the door
- 2 For each sort population: highlight the desired wells, select the Sort Gate & Sort Mode used for alignment, and enter the Stop Count (cells/well)  
**Best practices:** Sort the most frequent population first. If needed, enable index data saving checkbox
- 3 Click **Add**. When ready, click **Close**
- 4 Click **Resume** & **Restart** sample to check Gating and **Droplet** breakoff  
**Best practice:** Unless the target is rare, adjust the event rate to <500 eps to preserve sample
- 5 Click **Index Sort & Record Start**  
Once complete, click **Finish** to end sample sorting, or click **Continue** to do another plate

## Finish



OR



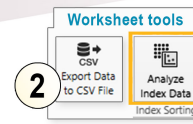
CLEAN FOR NEXT USER

SHUTDOWN

## Index Analysis (optional)



Double-click the data source



Click **Analyze Index Data**, or export plate data as a CSV file