

Set up sorting to plate

1. Change Automated Cell Deposition Unit (ACDU). For Aria IIu use the larger device and for Aria III the smaller.
2. Turn voltage on and test sort.
3. Shut down all voltages except far left that initially can be kept at 50.
4. Open waste drawer, adjust voltage to center the side stream through the middle of the hole in the ACDU.
5. Open Accudrop delay layout and then open sort layout.
6. Change device in sort layout to your plate format of interest e.g 96 well or 384 well plate.
7. Draw out plate holder by pushing the eject button in the sort layout.
8. Place your plate in position on plate holder. Left front corner corresponds to A1 on plate.
9. Go to sort at the top menu bar and open menu item home device. Choose the correct device (plate) in the list on the left and push the go home button.
10. Turn on voltage, this will activate the center button between the arrows.
11. Start test sort (center button) to fill up a well for a gross approximation where the stream hits the plate.
12. Use the arrows to move the plate holder to center the side stream in well A1. Check accuracy by shortly push test sort to see if the drop hits the center of the well.
13. When appropriate adjustments are done, click button set home (This will save coordinates for the A1 well).
14. Click apply (this brings the values to the sort layout)
15. In the sort layout, set up a test sort of three columns and three rows with 50-100 Accudrop beads per well.
16. Sort Accudrop beads and confirm that the drops are sorted into the right wells.
17. The plate set up is now done and cells can be sorted.

Sort to PCR plate

1. PCR plates are placed in a black scaffold (96well plate) to hold the plate in position. Use a PCR plate with aluminum foil to set the A1 position as in center as possible.
2. In the sort layout, set up a test sort of three columns and three rows with 50-100 Accudrop beads per well. Test sort three columns and three rows. On the foil covered PCR plate.
3. Remove foil and repeat #2
4. Make fine adjustments of A1 position and repeat #2 until the drops are hitting the bottom of the well.

If you have any questions contact Zhi Ma and Teona Roschupkina at the FACS facility.