

# Sorting: Collection vessels and “multi-way” (multi-population) sorting

(version 1)

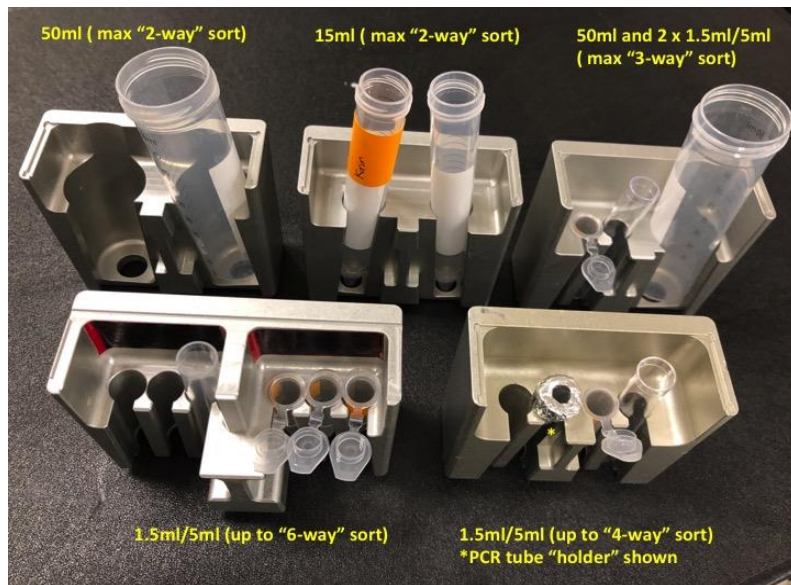
❖ Download this instrument Help File: [salk.edu/fccfaccess](http://salk.edu/fccfaccess) > Help Files

**Setup Notes:** We need time to target sort streams to the collection vessels, please include this info when requesting sorts. Plates take more time to align and should be sorted first when sorting into both plates and tubes.

We can sort into a variety of tubes and most multi-well plates. Some combinations of large and smaller tubes are possible with a bit of adaptation (e.g. fashioned from a piece of aluminum foil) so even if not shown, ask us and we will see if we can do it. Most multi-well plates are possible as custom templates can be made: we commonly sort into 6, 12, 96, 384-well plates.

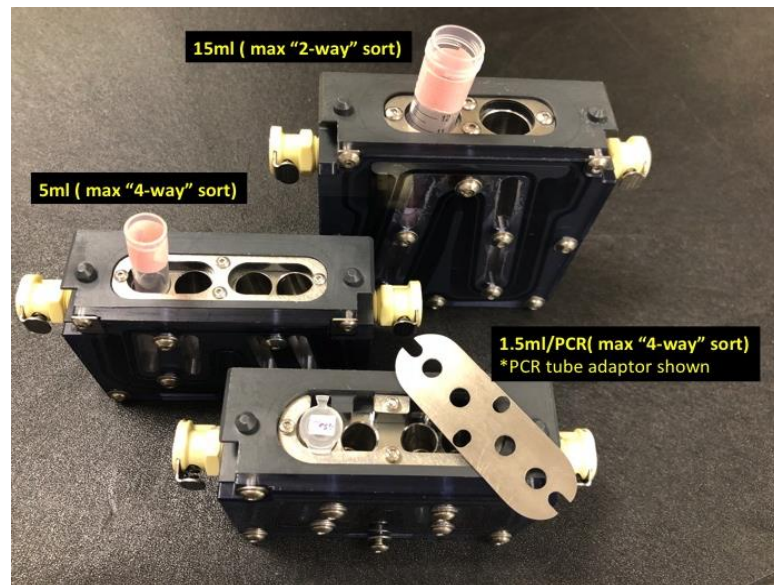
## Influx

PCR tubes  
1.5ml eppendorf  
5ml FACS tubes  
15ml Falcon  
50m Falcon



## Fusion

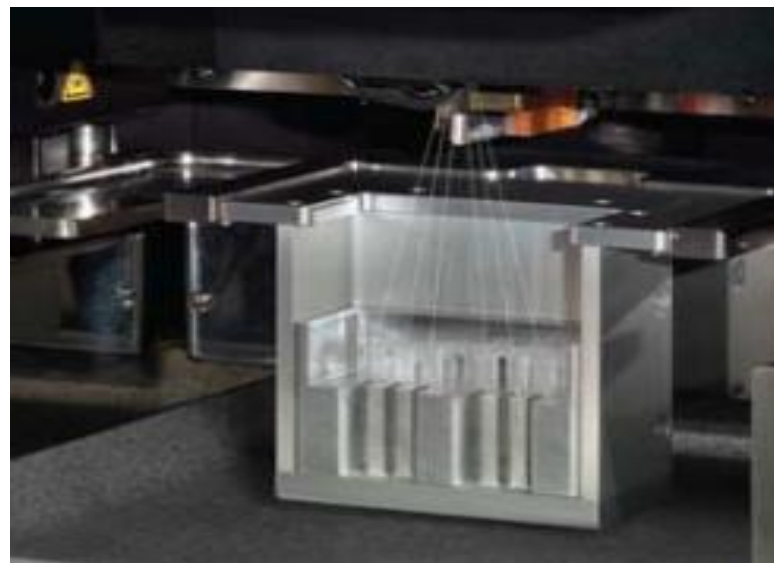
PCR tubes  
1.5ml eppendorf  
5ml FACS tubes  
15ml Falcon  
**No 50ml Falcon holder**



## “Multi-way” sorting

The sorters generate drops charged either positively or negatively that are deflected by a pair of high voltage plates (left or right of the waste aspirator depending on polarity).

**The Influx cell sorters can generate up to 6 “sort streams”:** These are 3 magnitudes of negatively charged drops and 3 magnitudes of positively charged drops that can be deflected for collection into tubes. Thus, the Influxes can sort a maximum of 6 populations “simultaneously” from a sample being run through the sorter. Particles not sorted during this time goes directly to the waste tank. **The Fusion can generate 4 sort streams.** Success and high purity results from multi-way sorting (4-6 populations) is dependent on sample quality. Samples must have very little viscosity and “stickiness” to produce clean sorting streams with minimal spray.



*6-way sorting on an Influx cell sorter: 6 sort deflection streams can be generated (i.e. up to 6 population sorting).*