

1. **Purity mode sorting:** For standard, “bulk sorting” into tubes for high purity: the most popular sort mode is a single drop Purity sort (on Influxes this is the “**1.0 drop Purity**”, on the Fusion the name for this sort mode is “**4-way Purity**”). We will use this unless directed otherwise. If your sample is sticky or a very low percentage: a 1-2 drop Purity that generates a higher sorted volume may yield better recovery (varies depending on sample type), or an Enrich/Yield mode may be offered to by the sort operator.

2. **Enrich/Yield mode sorting:** Recovers more sortable target events and the cost of some purity (again, varies – it can even be fairly similar to Purity). This mode will sort the desired targets even if an undesirable particle is too close. This mode can be useful if cells can be expanded and resorted.

3. **Single cell mode:** This is a single drop sorting mode typically used for single cell/nuclei deposition into multi-well plates, but can also be used when precise counting into a tube is needed. This mode “wastes” the most sample, as it will only sort when samples are in the center of a drop (and therefore least likely to end up in the wrong drop). Sorted drops are most likely to contain only one sort target or no events.