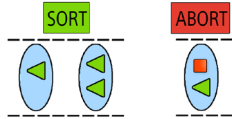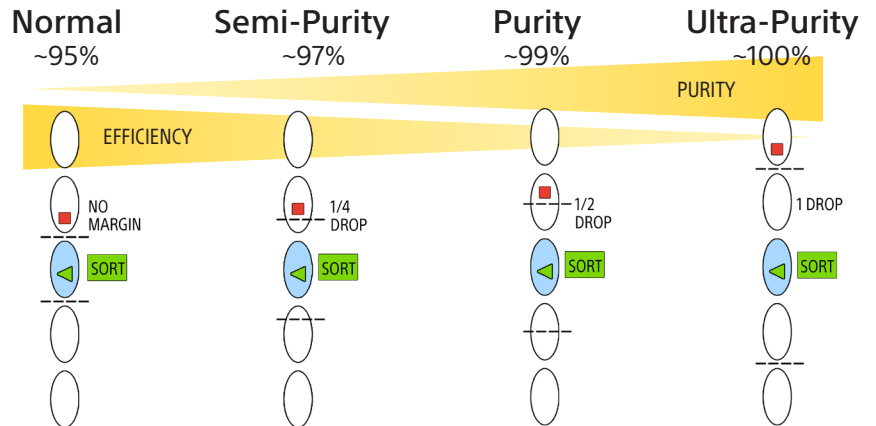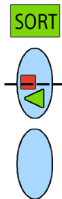# SH800 and MA900 Sorting Modes Guide

Purity Modes

- Purity is achieved at the expense of aborting the target ◁ coincident with the non-target ■.

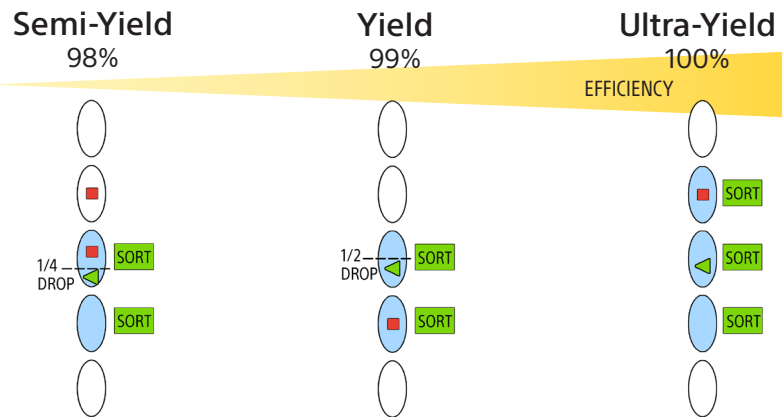- For best efficiency, do not exceed sort speeds described in the sorting chip guide.

*Note: For more information, see **Sony Cell Sorter Operator's Guide***

Normal ~95%   **Semi-Purity** ~97%   **Purity** ~99%   **Ultra-Purity** ~100%

PURITY

EFFICIENCY

NO MARGIN   1/4 DROP   1/2 DROP   1 DROP
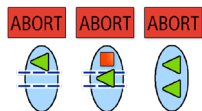
SORT   SORT   SORT   SORT

Yield Modes

- Enrich for the target at the expense of purity.

- Coincidence is not aborted.

- Extra drops are sorted for maximum recovery.

- The recommended event rate for the nozzle may be exceeded.

Semi-Yield 98%   **Yield** 99%   **Ultra-Yield** 100%

EFFICIENCY

1/4 DROP   1/2 DROP
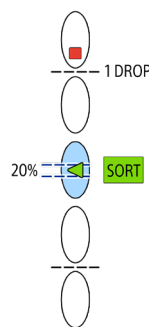
SORT   SORT   SORT
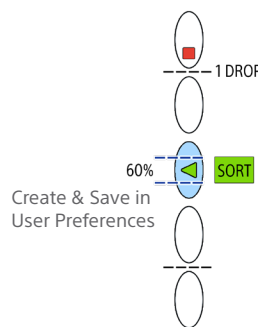SORT   SORT   SORT

Single-Cell Modes

- Used for single-cell plate sorts.

- Sort only 1 (not 2) targets, at 100% purity.

- The Centering Mask ensures the target is in the sorting drop.

- Expanding the Centering Mask increases efficiency.

- The 130-μm nozzle always sorts 3 drops in any single-cell mode.

Single-Cell 20% Centering Mask   **Single-Cell Custom** Customizable Centering Mask (eg 60%)   **Single-Cell 3-Drop** No Centering 3-Drop Sort

1 DROP   1 DROP   1 DROP

20%   SORT
60%   SORT
Create & Save in User Preferences

SORT
SORT
SORT