Fluorescent Protein (GFP, mCherry etc) Cell Sorting

Materials

Negative control cells with no fluorescent protein

Presorted cells filtered through 40 µM mesh and resuspended at 1 x 10^7 cells/mL in D-PBS or Sort Staining Buffer in 12x75mm polystyrene tube

Sort Staining Buffer
500ml D-PBS or HBSS (Ca^{2+} and Mg^{2+} free)
100U/ml DNAse (RNase, protease free) 1 vial used/500ml
7.5ml HEPES (15mM)
16.5ml 30% solution BSA (final concentration 1%)
Penn/Strep (5ml)
2mM EDTA (2ml)
0.2µm filtered

Procedure

1. Wash cells out of growth media and resuspend in D-PBS or Sort Staining Buffer at 2 x 10^7cells/mL
2. Filter cells through 40 µM nylon mesh (can be obtained in the FACS Core)
3. Bring post sort tubes (12 x 75 mm) with the media or buffer you prefer.
   a. For cell growth following the sort, FBS is recommended
   b. For RNA or DNA extraction following the sort, D-PBS is recommended