**EXPERIMENT PROTOCOL (Sorting, Acquisition on Sorter)**

This form must be completely filled out and received by the cell sorter operator at least 24 hours before the experiment date.

User Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date of Experiment: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Laboratory/Principal Investigator: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Phone Number:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Experiment:**

|  |  |
| --- | --- |
| Cell type |  |
| Source (human, mouse, etc.) |  |
| Treatment of cells (e.g., transfected, cultured, pre-enriched etc**.) If transfected, please indicate vector** |  |
| If transfected, were cells transfected with an oncogene within 24 hrs of submission to the core? |  |
| If cells are infected, indicate agent and if they are potentially infectious (e.g., HIV-1) |  |
| Instrument sterilization required |  |
| Approximate cell size or nozzle size requested |  |
| Temperature control (sample/sort fractions) |  |
| Staining Panel: e.g., antibody/fluorochrome, dyes, fluorescent proteins |  |
| Cell numbers (e.g. total number of cells to be sorted, number of samples) |  |
| Sort Fraction 1 percentage (projected) |  |
| Sort Fraction 2 percentage (projected) |  |
| Sort Fraction 3 percentage (projected) |  |
| Sort Fraction 4 percentage (projected) |  |
| Types of collection tubes (tube size, plates) |  |

**All users who are present in the sort room during sort set-up and sorting must follow the same BSL2+ PPE requirements as the sort operator which includes a disposable lab coat, double gloves, safety goggles, and a respirator mask (N-95 or higher). Note that each person needs to get individually fit tested for an effective respirator mask by EH&S.**

**For sorting:** Note that all tubes, media and control samples need to be sterile for a sterile sort!

* Cell concentration should be 10 to 20 x 106 cells per mL, however, if total cell number is low resuspend cells in at least 0.4 mL in Falcon 12x75 mm tubes.
* Bring 15 mL Falcon tubes with 5 mL of culture medium. Double the concentration of serum normally used. For sorts with a low number of target cells, bring Falcon 12x75 mm tubes containing 1 mL of medium for sort collection.
* Bring extra medium in a 50 mL conical tube.
* Bring control cells, unstained cells, or cells stained with isotype control antibodies depending on the experiment performed.
* Bring single color tubes for compensation set-up for multi-color experiments.

**For sample acquisition:**

* Place cells into 12 x 75 mm polystyrene or polypropylene Falcon snap-cap tubes.
* Cell concentration should be approximately 1 x 106 mL with a minimum volume of 0.5 mL.
* Bring single color tubes for compensation set-up.