

**University Science Instrumentation Center (USIC)**

**University of Delhi, Delhi-110007**

Date \_\_\_\_\_

Requisition form for using the facility of BD FACSymphony S6 Sorter

Name of User \_\_\_\_\_

Name of supervisor \_\_\_\_\_

Department \_\_\_\_\_

User' Email ID \_\_\_\_\_

Contact Details \_\_\_\_\_

**Sample Information**

**Experiment Name-**

**Experiment Type-** 1) Acquisition/Sample Analysis 2) Sorting with Acquisition

**Number of Controls-**

**Number of Test Samples-**

**Size of cells/ particles-**

**Number of parameters to be analyzed-**

**Name of Fluorophores-**

**Preferred date for the slot-**

## Laser & Filter Selection:

|                                                                                                                                                                       |               |    |                          |       |             |               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----|--------------------------|-------|-------------|---------------|
| Blue (488nm Excitation)<br>FSC<br>SSC                                                                                                                                 | FITC          | PE | PE-Texas Red             | PerCp | PerCP-Cy5.5 | PE-Cy7/PerCp7 |
| UV (355nm)                                                                                                                                                            | DAPI          |    | Indo-1 Blue              |       | SP Red      |               |
| Yellow Green (561nm)                                                                                                                                                  | Ds red/pe-561 |    | Mcherry/Pe-Texas Red-561 |       | PE-Cy5      | Pe-Cy7        |
| Red (633/637nm)                                                                                                                                                       | APC           |    | APC-Alexa                |       | APC-CY7     |               |
| Voilet (405)                                                                                                                                                          | Pacific Blue  |    | AmCyan                   |       | Qdot        |               |
| If not sure about the selection of filters and lasers list down the excitation and emission spectra of the dye/fluorophore in the additional information box provided |               |    |                          |       |             |               |

I understand that for any experiment if more than one filter is selected, compensation control for every fluorochrome will be needed for sample analysis along with the unstained control. The samples will be analyzed according to the choices recorded in the form.

Please fill out the below form only in case Sorting with Acquisition is opted.

| Sorting with Acquisition       |                 |                |
|--------------------------------|-----------------|----------------|
| Number of samples to be sorted |                 |                |
| Device to be used for sorting  | FACS tube (5ml) | 96-well plate  |
|                                | 24-well plate   | 384-well plate |
| Population to be sorted        |                 |                |
| Type of sorting                | Sterile         | Unsterile      |
| Additional information         |                 |                |

I understand that for any experiment if more than one filter is selected, compensation control for every fluorochrome will be needed for sample analysis along with the unstained control. The samples will be analyzed according to the choices recorded in the form.

\_\_\_\_\_

- **KINDLY ENSURE THAT THE GIVEN SAMPLE IS NOT INFECTIOUS POISONOUS OR TOXIC IN ANY WAY**
- **Whenever the results are used in the publications, appropriate acknowledgment of the usage of USIC central facility must be mentioned. The details can be forwarded to [director@usic.du.ac.in](mailto:director@usic.du.ac.in) or [director.du@gmail.com](mailto:director.du@gmail.com)**

## **Important Information**

The minimum volume of sample required for acquisition is 500ul and the concentration of cells/particles required is  $1 \cdot 10^6$  cells or particles per ml.

Every sample for analysis should be accompanied by an unstained control.

Gating of the population is experiment design-specific and should be suggested by the user.

Gating can also be done offline by the user.

The sample will be analyzed on the channels using the lasers chosen by the user in the form.

The instrument is equipped to normally handle cells/particles in the size range of 0.2 to 25 microns. While the instrument cannot strictly handle cells/particles above 25 microns, it may be possible to analyze a sample size of less than 0.2 microns. Such samples, that is, those containing particle sizes less than 0.2 microns will be handled on a case-by-case basis, and users requesting analyses of such samples must discuss with the application specialist's person prior to submitting a request.

**User signature**

**Date**

**Supervisor signature**

**with seal**