



Indian Institute of Technology Bombay

Flow Cytometry facility

Requisition form for using FACS facility (facs@iitb.ac.in)

Date:

1) Name of the User*:

2) Name of the Organization*:

3) Name of the HOD/ Principal Investigator*:

4) User's Email ID:

5) Tel No*:

Sample Information	
Experiment name *	Others <input type="text"/>
Experiment Type *	<input checked="" type="radio"/> Acquisition/Sample analysis <input type="radio"/> Sorting with acquisition <input type="radio"/> Data analysis (using FlowJo software)
Number of controls *	<input type="text"/>
Number of test samples *	<input type="text"/>
Size of the cells/particles *	<input type="text"/>
Number of parameters to be analyzed *	<input type="text"/>
Name of Fluorophores	<input type="text"/>
Preferred date for the slot	<input type="text"/> <input type="button" value="..."/>

Acquisition/Sample analysis

Laser & Filter selection :

Blue (488nm Excitation) <input checked="" type="checkbox"/> FSC <input checked="" type="checkbox"/> SSC	<input type="checkbox"/> FITC (515-545nm)	<input type="checkbox"/> PE (578-587nm)	<input type="checkbox"/> PE-Texas Red (600-620nm)	<input type="checkbox"/> PerCp (667-702nm)	<input type="checkbox"/> PerCP-Cy5.5 (675-715nm)	<input type="checkbox"/> PE-Cy7/PerCpâ€¢Cy7 (750-810nm)
UV (355nm)	<input type="checkbox"/> DAPI (425-475nm)		<input type="checkbox"/> Indo-1 Blue (515-545nm)		<input type="checkbox"/> SP Red (645-695nm)	
Yellow Green (561 nm)	<input type="checkbox"/> Ds Red/PE-561 (577-592nm)		<input type="checkbox"/> mcherry/PE-Texas Red-561 (600-620nm)	<input type="checkbox"/> PE -Cy5 (655-685nm)	<input type="checkbox"/> PE -Cy7-561 (750-810nm)	
Red (633/637nm)	<input type="checkbox"/> APC (655-670nm)		<input type="checkbox"/> APC -Alexa 700 (707-752nm)		<input type="checkbox"/> APC-Cy7 (750-810nm)	
Violet (405nm)	<input type="checkbox"/> Pacific Blue (425-475nm)		<input type="checkbox"/> AmCyan (500-550nm)		<input type="checkbox"/> Qdot 655 (655-685nm)	
If not sure about selection of filters & laser then list down the Excitation & Emission spectra of the dye/fluorophore in the additional information box provided.	<div style="border: 1px solid black; height: 80px;"></div>					

Additional information : (Constraints/Preferences/ etc.)

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 below form only in case 'Sorting with acquisition' is opted.

Sorting with acquisition			
Number of samples to be sorted *	<input type="text"/>		
Population to be sorted *	<input type="text"/>		
Device to be used for sorting *	<input type="checkbox"/> FACS tube (5ml)	<input type="checkbox"/> 15ml Falcon tube	<input type="checkbox"/> 96-well plate
	<input type="checkbox"/> 24-well plate	<input type="checkbox"/> 6-well plate	<input type="checkbox"/> Agar plate
Number of collection devices (tubes/plated) used for sorting *	<input type="text"/>		
Type of sorting	<input type="radio"/> Sterile (Sterile sorting is in trial mode)		<input type="radio"/> Unsterile
Additional information : (Constraints/Preferences/ etc.)	<input type="text"/>		
<input type="checkbox"/> 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.			

Fields marked with * are mandatory fields.

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- ✓ KINDLY ENSURE THAT THE GIVEN SAMPLE IS NOT INFECTIOUS OR POISONOUS OR TOXIC IN ANY WAY
 - ✓ Whenever the results are used in the publications, appropriate acknowledgment of usage of IIT Bombay's Flow Cytometry central facility & IRCC must be mentioned. The details can be forwarded to facs@iitb.ac.in
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Important information:

1. FACS1 refers to FACS machine located in CRNTS department while FACS2 refers to FACS machine located in BSBE department.
2. Acquisition/Sample analysis' refers to analyzing samples on Flow Cytometer and 'Sorting with acquisition' refers to analyzing and separately collecting desired population.
3. Minimum volume of sample required for acquisition is 500ul and the concentration of cells/particles required is 1×10^6 cells or particles per ml.
4. Every sample for analysis should be accompanied with an Unstained control
5. Gating of population is experiment design specific and should be suggested by the user.

6. Gating can also be done offline by the user.
7. The samples will be analyzed on the channels using the lasers chosen by the user in the form. The user is therefore requested to pay utmost attention while selecting the lasers & channels.
8. Instrument is equipped to normally handle cells/particles in the size range 0.2 to 25 microns. While instrument cannot "strictly" handle cells/particles above 25 microns, it may be possible to analyze samples of size less than 0.2 microns. Such samples, that is, those containing particles less than 0.2 microns will be handled on a case-by-case basis and user requesting analyzes of such samples must discuss with the operator at facs@iitb.ac.in prior to submitting a request.
9. [Please refer to https://rnd.iitb.ac.in/research-facility/fluorescence-activated-cell-sorting-flow-cytometer-facility](https://rnd.iitb.ac.in/research-facility/fluorescence-activated-cell-sorting-flow-cytometer-facility) [for Instructions for sample preparation/submission](#)
10. UV laser of FACS1 is non functional. However, for it is working for FACS2.
11. Mixed samples (e.g. blood samples or co culture samples) cannot be resolved efficiently on the basis of side scatter properties on FACS1. However, it can be resolved efficiently on FACS2.

I have read above mentioned Important information

For IITB use only

Date of sample receipt:Date of analysis:

Flow Cytometry facility machine name:

Name of the Operator:Signature of Operator:

Registration number:

Remarks: