

FLUORESCENCE ACTIVATED CELL SORTING (FACS)

Instrument Details:

Make : Becton Dickinson

Model : FACS ARIA III

Specification : 3 Lasers (Blue,Red and Near-UV)



Principle of flow cytometry:

The basic principle of flow cytometry is the passage of cells in single file in front of a laser so they can be detected, counted and sorted.

The research applications of flow cytometry include:

The most common application performed on the cytometer are

Immunophenotyping. ...

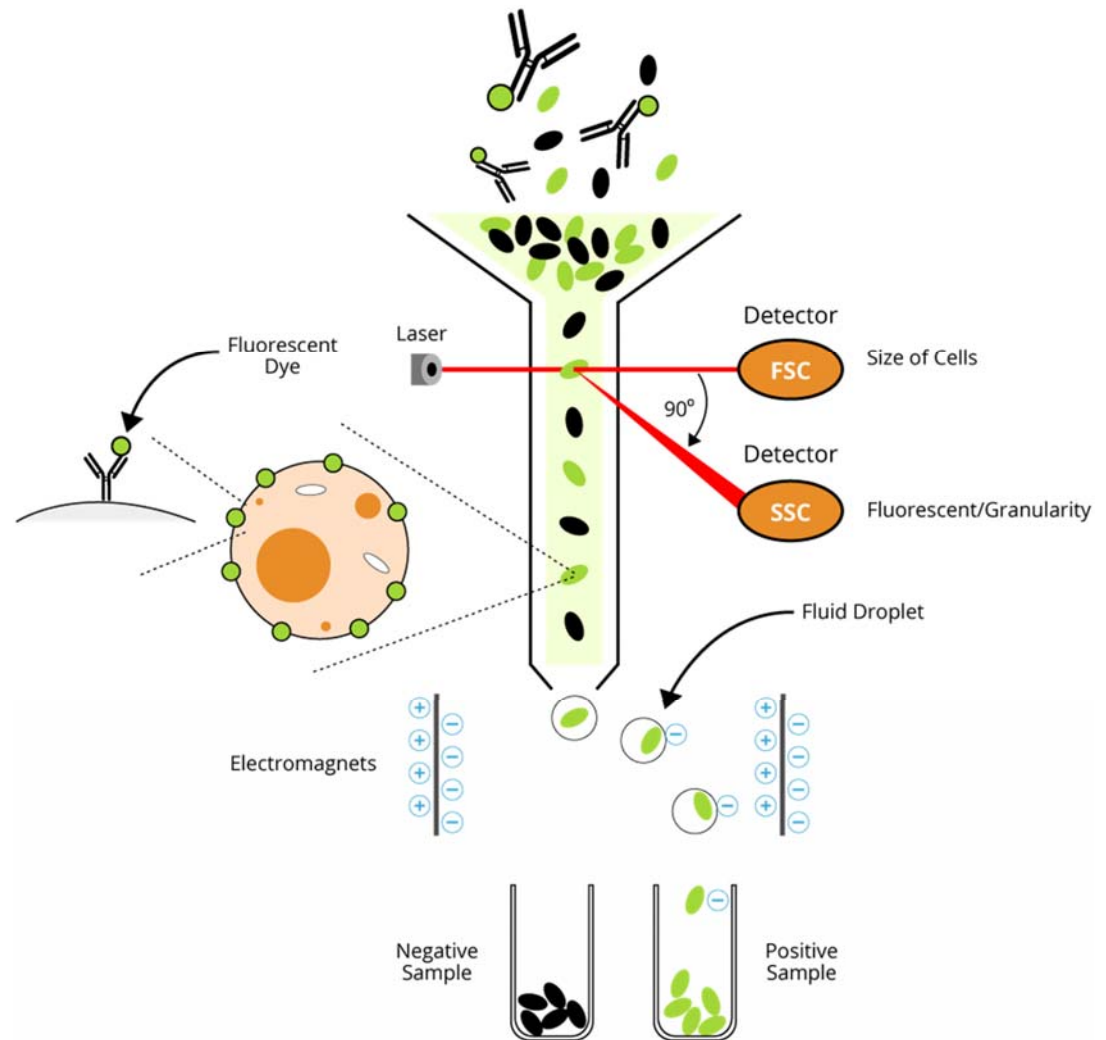
Cell Sorting. ...

Cell Cycle Analysis. ...

Apoptosis. ...

Cell Proliferation Assays. ...

Intracellular Calcium Flux. ...



User Instructions:

Sample Submission: Samples are to be brought in person on the date of your appointment.

Instructions for sample preparation/submission

- 1) Samples should not be viscous.
- 2) Samples should not be prepared in Organic solvents (e.g. THF, Acetone, Hexane, Toluene etc)
- 3) Clumping should be avoided. Clumps can block the nozzle and can affect analysis.
- 4) Minimum volume of sample required for analysis is 500 μ l and the concentration of cells/particles required is approx. 1×10^6 cells or particles per ml for better analysis.
- 5) User should bring appropriate compensation controls required for the experiment and every sample for analysis shall be accompanied by an unstained control.
- 6) The users are expected to bring their own samples for analysis.

Results: User is expected to bring their own recordable CD(s) to copy the collected data. After the sample analysis is complete, the collected data files will be copied to the CD provided by the user.

- 1 The experimental data provided is only for research / development purposes. These cannot be used as certificates in legal disputes.
- 2 Samples will not be analyzed till payment is received.

FACS ARIA Charges including GST:

Sl. No	Equipment	Services offered	Sample types	Sample Concentration/ Volume	Cost (In Rupees plus 18% GST)	
	GENOMICS:				Academia	Corporate
1	FACS ARIA	1-5 samples	Fluorochrome labeled cells	NA	Rs. 700+ Rs. 126 GST= Rs. 826 per sample	Rs. 1,200 +216 GST = Rs. 1,416 per sample
		6-10 samples			Rs. 500+ Rs. 90 GST= Rs. 590 per sample	Rs. 1,000+ Rs. 180 GST= Rs.1,180 per Sample
		11-15 samples			Rs. 350+ Rs. 63 GST= Rs. 413 per sample	Rs. 600+ Rs. 108 GST= Rs. 708 per Sample
		16 and Above			Rs. 160+ Rs. 29 GST= Rs. 189 per sample	Rs. 300+ Rs. 54 GST= Rs. 354 per Sample
	FACS Cell Sorting				Rs. 1300+ Rs. 234 GST= Rs. 1,534 per sample	Rs. 2500+ Rs. 450 GST= Rs. 2,950 per Sample

PAYMENT:

External Users: Information

1. Academic Institutions:

User can come personally and bring a letter from the Guide/HOD on the Institution's Original Letter Head along with the Registration Form and Demand draft. The letter must clearly indicate whether the samples are for Research or Consultancy purposes. The letter should be addressed to Mr. Vinod Kumar Mishra Staff Scientist, **Head, Sophisticated Equipment Facility(SEF)** Centre For DNA Fingerprinting and Diagnostics(CDFD) Hyderabad Email-sefcdfd@cdfd.org.in, vk mishra@cdfd.org.in.

2. Industry & Non-Government Agencies:

User can come personally and bring a letter signed by an authorized signatory of their Institution on Original Letter Head along with the Registration Form and Demand draft. The letter should be addressed to Mr. Vinod Kumar Mishra Staff Scientist, **Head,** Sophisticated Equipment Facility(SEF) Centre For DNA Fingerprinting and Diagnostics(CDFD) Hyderabad Email-sefcdfd@cdfd.org.in, vk mishra@cdfd.org.in.

‡-Pricing is only for data collection. User is expected to bring their own recordable CD to copy the collected data.

†-Acquisition refers to collecting data on different channels and statistics as reported by BD FACS Diva software. The charge for acquisition is same irrespective of the number of detectors desired by the user for a sample.

** Collection device refers to 5ml FACS tubes, 15ml Falcon tubes.

Tariff for external users:

Basic charges including GST* (as applicable)

*GST rate as on 1.8.2017

Payment Mode: Payment should in the form of a Demand Draft (DD) drawn in favour of The DIRECTOR CDFD HYDERABAD.

Appointment: The users will be informed about their date and time-slot by email. If the day and timeslot is not suitable for you, an email request to sefcdfd@cdfd.org.in, vk mishra@cdfd.org.in should be sent immediately for an alternate slot.



CENTER FOR DNA FINGERPRINTING AND DIAGNOSTICS

SOPHISTICATED EQUIPMENT FACILITY

UPPAL, HYDERABAD

FACS –REQUISITION FORM

NAME				DATE :
LABORATORY SUPERVISOR				
INSTITUTION	a) CDFD []	b) Academic []	c) Industry []	
NO.OF.SAMPLES				
SAMPLE TYPE				
ANALYSIS TYPE	a) Fluorescence	b) Cell cycle	c) Sorting	d) Others
SAMPLE INFORMATION	a) Cell count:		b) Wavelength:	
	c) Florochrome:			
PHONE				
E-mail				
DECLARATION	This is to certify that these samples do not contain Radioactive material			
	Signature			<input type="text"/>

This is to submit that Content of this report is meant for our information only and we will not use the content of this report for advertisement, evidence, litigation or quote as certificate to third party.

Signature of Student

Signature of the Group Head