



INSTRUMENT USAGE SHEET

FLOW CYTOMETER / CELL SORTER BD FACSARIA II

General Information

Instrument: Flow Cytometer / Cell Sorter BD FACSARIA II
Manufacturer: BD (Becton Dickinson)

Location:

- CRIETT – Biffi Building
- Via O. Rossi 9, Varese, Italy
- Ground floor

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List of Users:

Dr. Alessandra Tedeschi

Training Required: Yes*

* Independent use of the instrument is allowed. The practical part requires individual training (lasting several days or weeks, as determined by the instrument manager). For the theoretical part, the manager will provide documentation on the operating principles (instrument user manual).

Internal tickets can be viewed on the intranet page (access with university credentials): <https://intranet.uninsubria.it/areadocumenti/ticket-strumenti-criett-utenti-interni>

The fee schedule for external users can be viewed on the website:
www.uninsubria.it/criett



Acknowledgment Requirement for Scientific Publications: According to the CRIETT Regulations (Art. 11), it is mandatory to acknowledge the use of CRIETT equipment in scientific publications using the following statement:

“The scientific support from CRIETT centre of University of Insubria (instrument code: XXX) is greatly acknowledged.”

Instrument Code: MIC04

Access Modes

1. Direct Access (Self-Service)

Who can use it:

- Research groups or users who use the instrument regularly and have received specific training.

Procedure:

- Trained users may independently access and operate the instrument after making an online reservation and obtaining approval from the instrument managers.

2. Access with Scientific Technician (Full-Service)

Who can use it:

- Research groups that use the instrument occasionally.
- External users.
- Users without qualified personnel.

Procedure:

- Access is provided with the assistance of dedicated technical staff, who manage both booking and instrument operation.

3. Occasional/Temporary User

- May access the instrument through the Instrument Manager or an authorized User.
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Description and Features

Flow Cytometer / Cell Sorter

Technical Specifications

- Equipped with 2 lasers:
 - Blue: 488 nm
 - Red: 633 nm
- Capable of analyzing up to 7 fluorescence parameters:
 - 5 detected via the blue laser
 - 2 detected via the red laser
- Nozzle sizes (µm):
 - 70
 - 85
 - 100
 - 130
- Software:
 - Data acquisition and analysis are managed through BD FACSDiva software.

Safety Warnings

- The instrument is not installed inside a certified biosafety cabinet and does not have an integrated aerosol management system.
- Samples classified as potentially infectious or infectious must be fixed and can therefore only be analyzed by flow cytometry.
- Cell sorting of such samples is not permitted.
- The instrument may only be used after completing the required training and demonstrating competency to the instrument managers.
- In case of doubts or instrument malfunctions, contact the technician or instrument manager.

Operating Notes

- Instrument booking is mandatory through the internal management system and must be arranged with the instrument managers.
- Self-service use is allowed only for trained, registered, and authorized users.
- Any malfunction must be promptly reported to CRIETT staff.

Materials and Accessories Provided by CRIETT

- Consumables, beads, and reagents required for instrument operation (startup, shutdown, and quality control).
- BD FACSDiva software.

Materials and Accessories to Be Provided by the User

- 5 mL tubes (12 × 75 mm), sterile or non-sterile, with or without caps
- 15 mL sterile tubes
- Pipette tips
- Pipettes
- Gloves
- Data analysis software (e.g., FlowJo)

For information regarding the planning of specific experiments, please contact the instrument managers.