

Resource Summary Report

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BD Biosciences: Aria IIu Flow Cytometer

RRID:SCR_019667

Type: Tool

Proper Citation

BD Biosciences: Aria IIu Flow Cytometer (RRID:SCR_019667)

Resource Information

URL: https://imm.medicina.ulisboa.pt/facility/flowcytometry/doku.php?id=bd_facsaria_iiu

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Description: Aria has four lasers, 405, 488, 561 and 633 nm, and can detect light in sixteen photomultiplier tubes. Its primary function is to examine complex populations of cells and yield pure populations of cells. The Aria can sort lymphocytes at a rate of approximately 15,000 events per second. For larger cells, the rate is much slower in order to optimize the passage of cells through the instrument. Cells from single populations can be sorted into 96-well plates. Alternatively, the Aria can sort into two 15-ml tubes or four 5-ml tubes. The Aria can purify samples that are simply positive and negative for a single fluorophore or as complex as nine-color samples with intricate gating schemes. The BD FACSAria IIu cell sorter is a high speed benchtop digital flow cytometer equipped with a sensitive, fixed-alignment cuvette flow cell. It has three spatially separated lasers - 405 nm, 488 nm and 633 nm. Its primary function is to analyze complex populations of cells and yield pure populations of cells meeting defined criteria. The sorter can purify samples that are simply positive and negative for a single fluorophore or as complex as multi-color samples with complex gating strategies. Sorting can be performed into two or four tubes with speeds up to 25,000 events/second. The system sorts by incorporating cells from the sample tube into a stream of sterile PBS. The stream is interrogated by the lasers at the flow cell and the system electronics keeps track of each cell as they pass through the laser and determines specific cells that meet the sort criteria. A transducer vibrates the stream and induces droplet formation, with cells in the stream being incorporated into the droplets. If a cell meets the sorting criteria and is in the last drop before the break off, the instrument will charge that drop. The charged droplet is then deflected into the proper collection tube by the charge plates. Different cell types can be sorted with the use of 70 µm, 85 µm and 100 µm nozzles. If you need a yellow-green (561 nm) laser, check the BD FACSAria III instead.

Resource Type: instrument resource

Keywords: Beckman Dickinson, Flow Cytometer, Instrument Equipment, USEDit

Availability: Commercially available

Resource Name: BD Biosciences: Aria IIu Flow Cytometer

Resource ID: SCR_019667

Alternate IDs: Model_Number_Aria IIu

Record Creation Time: 20220129T080346+0000

Record Last Update: 20260801T190634+0000

Ratings and Alerts

No rating or validation information has been found for BD Biosciences: Aria IIu Flow Cytometer.

No alerts have been found for BD Biosciences: Aria IIu Flow Cytometer.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.