BD FACSAria™ III Configuration

Features

The BD FACSAria™ III is a multicolor cell sorter, equipped with 5 lasers - blue (488 nm), yellow-green (561 nm), red (633 nm), violet (405 nm) and near U V (3 7 5 n m) - and 17 detectors to measure up to 16 colors simultaneously. The BD FACSAria™III sorter is able to sort up to four populations simultaneously.

NOTE It is possible to use either the 375 nm or the 405 nm laser, they are not running simultaneously. In principle, both lasers enable you to analyze similar dyes, however, the excitation of some dyes (e.g. DAPI) may be more efficient using the 375 nm laser

Software

BD FACSDiva™ Version 8.0.2

Input and Collection Devices

Sample Collection Devices

Two-way sorting: 12x75 mm or 15 ml tubes

Four-way sorting: 12x75 mm or 1.5 ml tubes

Automated cell deposition unit:

6/24/96 well-plates, microscopy slides

Sample Input Sizes

Microtubes, 12x75 mm or 15 ml tubes

Temperature Control

Sample input software-adjustable to 4°C, 20°C, 37°C or 42°C

Standard Configuration

Laser	Fluorescent Channel /Filter	BD Channel Names	Commonly used Fluorochromes
375 nm or 405 nm	450/40	E	DAPI, Pacific Blue, BV421, Cerulean, eFluor450, AlexaFluor405
	525/50, 505 LP	D	AmCyan, BV510, CFP, V500
	610/20, 600 LP	C	BV605
	670/30, 655 LP	B	BV650
	710/50, 690 LP	A	BV786
488nm	488/10	C	SSC
	530/30, 502LP	B	FITC, GFP, YFP, CFSE, BB515, AlexaFluor488
	695/40, 655LP	A	PerCP-Cy5.5
561nm	586/15 570LP	E	PE, DsRed, Cy3, RFP, tdTomato
	610/20, 600LP	D	PE-Texas Red, PI, mCherry, Rhodamine Red
	670/14, 630LP	C	PE-Cy5, PerCP, PerCP-Cy5.5, Tricolor
	710/50, 785LP	B	PE-Alexa Fluor 700, PE-Cy5.5
	780/60, 735LP	A	PE-Cy7
640 nm	660/20	C	APC, AlexaFluor647, Sytox Red
	730/45, 690 LP	B	Alexa Fluor 700
	780/60, 755LP	A	APC-Cy7, APC-H7