

BD FACSAria Fusion



General Information

The BD FACSAria Fusion has precisely integrated fluidic and optical systems to maximize signal detection. Optimized fiber-launched lasers improve sensitivity and resolution for each color in a multicolor assay, and innovations such as the patented flow cell with gel-coupled cuvette ensure performance.

The FACSAria Fusion is equipped with three lasers (405nm-488nm-635nm) that can detect up to 14 different colors (see the below chart).

Samples are acquired using the BDFACSDiva 8.0.2 software and pulse processing (height, width and area) can be measured on all the parameters.

Samples are saved as FCS3.0 and FCS3.1 files.

A custom-tailored biosafety cabinet for the BD FACSAria Fusion was designed in collaboration with The Baker Company, a leader in biosafety solutions.

Lasers and Configuration

FACSria Fusion Sorter

Laser	Filter	Fluorochrome
Violet 405nm	450/40 525/50 610/20 660/20 710/50 780/60	BV421, BV450, Dapi, PacificBlue, eFluor450, Hoechst, CFP, BFP BV480, BV510, V500, Krome Orange BV605 BV650 BV711 BV786
Blu 488nm	530/30 585/42 616/23 675/20 780/60	FTTC, BB515, Alexa488, CFSE, GFP, YFP, Colver PE, PKH26, PI PE-TexasRED, PI PE-Cy5,5, PerCP-Cy5,5 PE-Cy7
Red 635nm	670/30 730/45 780/60	APC, Alexa647, Cy5 APC-R700, Alexa700 APC-Cy7, APC-H7

Nozzles available and Pression:

NOZZLE	PRESSION
70 um	70 PSI
85 um	45 PSI
100 um	20 PSI
130 um	10 PSI

Sample Format

Manual port	5 ml Sterile Polypropylene Round-Bottom Tubes (FALCON 352063)
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Collection criteria

Collection support	Way sorting
1,5 ml or 2ml Eppendorf tubes	Sorts up to 4 different populations at the same time
5 ml or 15 ml tubes	Sorts up to 2 different populations at the same time
microtiter plates (48-96 and 384 wells)	Sorts 1 population
Microscope slides	Sorts 1 population