

The BD FACSAria™ IIIu and BD FACSymphony™ S6 SE cell sorters are highly flexible flow cytometry platforms that enables the identification and collection of cells from complex mixtures (spleen, bone marrow, blood, mixed cell cultures) at several pressures and speeds depending sample requirements.

The BD FACSMelody™ cell sorter offers a friendly flow cytometry platform that enables the identification and collection of cells for simpler sorts at a single pressure and speed.

All instruments are housed inside a class II, A2 biosafety cabinet for sorting of BSL-2 samples such as lentiviral infected cell lines, bacteria and infected/non-infected human samples.

Also, please refer to our page on Sample Preparation for Sorting and concentrate your samples according to the guidelines below.

BD FACSAria™ IIIu and BD FACSymphony™ S6 SE

Instrument Specifications					
Sort Set-ups					
Nozzle (µM)	70	85	100		
Pressure (PSI)	70 (high)	35 (medium)	30 (medium)	20 (low)	
Cell Type	Splenocytes Thymocytes PBMC whole blood bacteria yeast bone marrow	B/T cell lines Embryonic Stem Cells Transduced/Transfected spleen, thymus bone marrow (delicate) cells	Embryonic stem cells Trophoblast stem cells Cultured primary cells	Endothelial cells All adherent cell lines Newly transfected cells Large delicate primary cells	
Cell Concentration	40 million/mL	10 – 15 million/mL	8 million/mL	3-5 million/mL (Bulk sorts)	1 million/mL (plate sorts)
Threshold Rate	18 – 22 x 10 ⁵ events/sec	~ 8,000 events/sec	~6,000 events/sec	~3,000 events/sec	~500 – 1000 Events/sec
Optimal Injection speed	20-35 µL/min				

BD FACSMelody™

Nozzle: 100 µM, Pressure: 23 psi

Sample concentration for bulk sorts: 8-10 millions/mL; Threshold rate: ~6,000 events/sec

Sample concentration for plate sorts: 1-2 million/mL; Threshold rate: ~500 – 1000 events/sec

Sample Injection and Collection Set-Up			
Set-Up	Tubes	Sorting Pools	Operating Temperature
Injection	12 x 75 mm (5mL)		Room Temperature 4 degrees 24 degrees 37 degrees
Collection	Eppendorf tubes 12 x 75 mm (5mL)	4 – way sorting	Room temperature
	Eppendorf tubes 12 x 75 mm (5mL)	2 – way sorting	Sorting into 2-way collection device can be performed at variable temperature.
	Multi-well plates (96, 48, 24, 6) Glass slides Chamber slides	1-way sorting	Sorting into multi-well plates can be performed at variable temperature.