BD FACSJazz Cell Sorter

(Becton Dickinson, San Jose, CA, USA)

Software: BD FACS Sortware sorter software

Laser:
405 nm: ≥50 mW
488 nm: ≥80 mW
561 nm: ≥75 mW

Fluorescence detection:

Wavelength ranges detected from 488-nm laser:

- BP 513/17 nm FITC; GFP
- BP 542/27 nm YFP

Wavelength ranges detected from 561-nm laser:

- BP 585/29 nm DsRed; PE
- BP 610/20 nm mCherry

Wavelength ranges detected from 405-nm laser:

- BP 520/35 nm AmCyan
- BP 450/50 nm DAPI, Hoechst, Pacific Blue™

Sample acquisition rate: Dead time is 0 µs. The maximum throughput rate is 200,000 events per second, independent of the number of parameters.

Sort performance: **Purity and yield** At 27 psi and 39 kHz with an average threshold of 10,000 events per second, a two-way sort achieved a purity of 98% and a yield of >80% of Poisson's expectedyield for both populations.

Sorting collection devices: Two-way sorting: 5-mL and 15-mL tubes
Plates and slides: 6, 24, 96, and 384-well plates; and user-defined collection devices