



STAFF IN CHARGE

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TECHNICAL SPECIFICATIONS

OPTICS

- ★ Fixed alignment lasers: 20-mW 488-nm, 17-mW 633-nm, 30-mW 405-nm and 50-mW 561-nm
- ★ Laser beam height is $9 \pm 3 \mu\text{m}$ and width is $65 \pm 7 \mu\text{m}$

Fluorescence Resolution/ Sensitivity

- ★ CV PI-Area of <3%, full G0/G1 peak for propidium iodide (PI)-stained chicken erythrocyte nuclei (CEN)
- ★ Doublet/singlet ratio of 1.95-2.05 for CENs stained with PI detected off the 488-nm

Forward and Side Scatter Sensitivity

- ★ Enables separation of particles from 0,5 to 50 μm
- ★ Scatter performance is optimized for resolving lymphocytes, monocytes, and granulocytes

FLUIDICS AND SORTING

Sort performance

- ★ Four nozzle sizes: 70, 85, 100 and 130 μm
- ★ With 100 μm nozzle at 8000 events / second, purity is > 98% and yield is > 80%

Sample input: microtubes, 5 ml and 15 ml tubes (polystyrene or polypropylene)

Sort collection devices

Sample and collection device temperature can be controlled (from 4°C to 37°C)

- ★ Two-way and 4-way sorting: 1.5-mL, 5-mL and 15-mL tubes
- ★ Plates and slides: 6, 24, 48, 96, and 384-well plates; slides; and user-defined collection devices

MAINTENANCE/ QUALITY CONTROL

BD Service twice a year
Daily quality control (CS&T)
Daily accudrop setting for optimal performance