

# Cytometer Performance Report

**Cytometer:** FACSCantoII  
**Cytometer Name:** FACSCantoII  
**Serial Number:** V96300958  
**Input Device:** Carousel  
**Setup Bead Position:** 1  
**Cytometer Configuration:** Canto II Config 3-laser, 8-color (4-2-2)

**User:** Administrator  
**Institution:** N/A  
**Software:** BD FACSDiva 8.0  
**Date:** 09/23/2019 09:17 AM  
**Cytometer Baseline:** 06/24/2019 09:23 AM  
**P/F:** Pass

## Setup Beads

**Bead Product:** CST Setup Beads **Part #:** 910858  
**Lot ID:** 72518 **Expiration Date:** 09/30/2019  
**Bead Lot Information:** Available

## Detector Settings

| Laser  | Detector | Parameter | Target Value | Actual Target Value | % Difference Target Value | Bright Bead % Robust CV | Mid Bead Median Channel | Mid Bead % Robust CV |
|--------|----------|-----------|--------------|---------------------|---------------------------|-------------------------|-------------------------|----------------------|
| Blue   | FSC      | FSC       | 125000       | 124976              | -1                        | 1.57                    | 125042                  | 1.60                 |
| Blue   | F        | SSC       | 125000       | 124500              | -1                        | 1.49                    | 125413                  | 1.43                 |
| Blue   | E        | FITC      | 19687        | 19051               | -4                        | 2.39                    | 489                     | 16.17                |
| Blue   | D        | PE        | 35036        | 34591               | -2                        | 1.76                    | 777                     | 11.63                |
| Blue   | B        | PE-Cy5    | 53922        | 51858               | -4                        | 3.54                    | 1457                    | 17.52                |
| Blue   | A        | PE-Cy7    | 41443        | 40294               | -3                        | 5.40                    | 921                     | 25.53                |
| Red    | C        | APC       | 64207        | 63996               | -1                        | 3.37                    | 1815                    | 12.86                |
| Red    | A        | APC-Cy7   | 48785        | 48288               | -2                        | 2.88                    | 1480                    | 11.04                |
| Violet | B        | DAPI      | 11947        | 11568               | -4                        | 3.14                    | 757                     | 10.37                |
| Violet | A        | AmCyan    | 48649        | 48070               | -2                        | 3.00                    | 1495                    | 8.00                 |

## Detector Settings (Continued)

| Laser  | Detector | Parameter | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr     | Br   | P/F  |
|--------|----------|-----------|-------------------------|----------------------|------|--------|--------|------|------|
| Blue   | FSC      | FSC       | 16705                   | 7.32                 | 532  | -28    | N/A    | N/A  | Pass |
| Blue   | F        | SSC       | 57670                   | 1.11                 | 383  | -13    | N/A    | N/A  | Pass |
| Blue   | E        | FITC      | 77                      | 63.96                | 435  | -13    | 0.0311 | 336  | Pass |
| Blue   | D        | PE        | 154                     | 42.57                | 473  | -12    | 0.2916 | 327  | Pass |
| Blue   | B        | PE-Cy5    | 230                     | 47.13                | 603  | -17    | 0.0111 | 75   | Pass |
| Blue   | A        | PE-Cy7    | 137                     | 69.19                | 620  | -19    | 0.0215 | 8    | Pass |
| Red    | C        | APC       | 355                     | 30.09                | 669  | -9     | 0.0253 | 140  | Pass |
| Red    | A        | APC-Cy7   | 210                     | 33.36                | 522  | -8     | 0.0051 | 952  | Pass |
| Violet | B        | DAPI      | 92                      | 65.47                | 438  | -12    | 0.1081 | 5630 | Pass |
| Violet | A        | AmCyan    | 165                     | 40.04                | 494  | -11    | 0.0403 | 3973 | Pass |

## Specifications

**PMTV Delta from baseline:** 50 (BD)  
**Violet Laser Primary Channel Bright Bead %Robust CV:** 6.00 (Recommended)  
**Blue Laser Primary Channel Bright Bead %Robust CV:** 6.00 (Recommended)  
**Red Laser Primary Channel Bright Bead %Robust CV:** 6.00 (Recommended)

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## Laser Settings

| Laser  | Power (mW) | Power Spec. (mW) | Current (mA) | Current Guidelines (mA) | Delay (Trigger on FSC) | Delay (Trigger on Fluorescence) | Area Scaling Factor |
|--------|------------|------------------|--------------|-------------------------|------------------------|---------------------------------|---------------------|
| Violet | 59.82      | 47.84 - 71.76    | N/A          | N/A                     | -29.78                 | -29.45                          | 1.21                |
| Blue   | 20.25      | 16.21 - 24.31    | 1.41         | 1.14 - 1.70             | 0.00                   | 0.00                            | 1.52                |
| Red    | 17.62      | 12.00 - 18.00    | N/A          | N/A                     | 27.60                  | 27.89                           | 1.31                |

Window Extension: 7.00  
FSC Area Scaling Factor: 0.91

## Threshold

Threshold (FSC): 10789

## Fluidics

FACSFlow Pressure: 4.50  
Spec.: 4.40 - 4.60  
Sample Pressure: 4.40

Comments