

# 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:** 10/19/2015 08:59 AM  
**Cytometer Baseline:** 06/08/2015 10:24 AM  
**P/F:** Pass

## Setup Beads

**Bead Product:** CST Setup Beads **Part #:** 910858  
**Lot ID:** 82950 **Expiration Date:** 03/31/2016  
**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       | 124003              | -1                        | 2.95                    | 124159                  | 2.95                 |
| Blue   | F        | SSC       | 125000       | 123545              | -2                        | 2.53                    | 124480                  | 2.47                 |
| Blue   | E        | FITC      | 20752        | 19891               | -5                        | 3.17                    | 473                     | 20.53                |
| Blue   | D        | PE        | 34971        | 33817               | -4                        | 2.50                    | 670                     | 17.40                |
| Blue   | B        | PE-Cy5    | 59521        | 57988               | -3                        | 4.84                    | 1151                    | 27.59                |
| Blue   | A        | PE-Cy7    | 45673        | 44783               | -2                        | 6.94                    | 576                     | 50.17                |
| Red    | C        | APC       | 57794        | 58257               | 0                         | 2.85                    | 1393                    | 16.46                |
| Red    | A        | APC-Cy7   | 53499        | 52358               | -3                        | 3.87                    | 812                     | 17.52                |
| Violet | B        | DAPI      | 11638        | 11128               | -5                        | 3.47                    | 751                     | 13.52                |
| Violet | A        | AmCyan    | 43958        | 42326               | -4                        | 3.13                    | 1331                    | 10.09                |

## Detector Settings (Continued)

| Laser  | Detector | Parameter | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr     | Br   | P/F  |
|--------|----------|-----------|-------------------------|----------------------|------|--------|--------|------|------|
| Blue   | FSC      | FSC       | 16913                   | 11.48                | 584  | 11     | N/A    | N/A  | Pass |
| Blue   | F        | SSC       | 60791                   | 2.52                 | 415  | 5      | N/A    | N/A  | Pass |
| Blue   | E        | FITC      | 88                      | 65.62                | 470  | 4      | 0.0180 | 234  | Pass |
| Blue   | D        | PE        | 169                     | 51.12                | 508  | 6      | 0.1314 | 268  | Pass |
| Blue   | B        | PE-Cy5    | 240                     | 64.70                | 656  | 18     | 0.0057 | 95   | Pass |
| Blue   | A        | PE-Cy7    | 113                     | 131.15               | 707  | 31     | 0.0083 | 44   | Pass |
| Red    | C        | APC       | 391                     | 32.29                | 697  | 10     | 0.0177 | 132  | Pass |
| Red    | A        | APC-Cy7   | 194                     | 41.18                | 549  | 12     | 0.0033 | 1224 | Pass |
| Violet | B        | DAPI      | 99                      | 72.41                | 471  | 6      | 0.0363 | 2534 | Pass |
| Violet | A        | AmCyan    | 161                     | 44.80                | 520  | 6      | 0.0186 | 2340 | 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 | 59.64      | 47.71 - 71.57    | N/A          | N/A                     | -30.85                 | -30.01                          | 1.16                |
| Blue   | 20.25      | 16.21 - 24.31    | 1.41         | 1.14 - 1.70             | 0.00                   | 0.00                            | 1.46                |
| Red    | 17.18      | 13.20 - 19.80    | N/A          | N/A                     | 28.52                  | 29.39                           | 1.20                |

Window Extension: 7.00  
FSC Area Scaling Factor: 0.88

## Threshold

Threshold (FSC): 12115

## Fluidics

FACSFlow Pressure: 4.60  
Spec.: 4.40 - 4.60  
Sample Pressure: 4.30

Comments