

# 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:** 12/19/2016 09:58 AM  
**Cytometer Baseline:** 10/31/2016 09:11 AM  
**P/F:** Pass

## Setup Beads

**Bead Product:** CST Setup Beads **Part #:** 910858  
**Lot ID:** 82950 **Expiration Date:** 03/31/2016 (Expired)  
**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       | 125091              | 0                         | 2.27                    | 125236                  | 2.23                 |
| Blue   | F        | SSC       | 125000       | 123640              | -2                        | 3.64                    | 124602                  | 3.62                 |
| Blue   | E        | FITC      | 19293        | 18428               | -5                        | 2.49                    | 444                     | 18.95                |
| Blue   | D        | PE        | 30205        | 29630               | -2                        | 1.66                    | 592                     | 15.49                |
| Blue   | B        | PE-Cy5    | 53947        | 53271               | -2                        | 4.15                    | 1065                    | 25.47                |
| Blue   | A        | PE-Cy7    | 44503        | 44598               | 0                         | 6.12                    | 577                     | 45.09                |
| Red    | C        | APC       | 63278        | 64172               | 1                         | 3.02                    | 1532                    | 18.48                |
| Red    | A        | APC-Cy7   | 54872        | 54956               | 0                         | 3.65                    | 844                     | 20.04                |
| Violet | B        | DAPI      | 11764        | 11274               | -5                        | 3.40                    | 765                     | 13.20                |
| Violet | A        | AmCyan    | 46171        | 45712               | -1                        | 3.34                    | 1438                    | 10.06                |

## Detector Settings (Continued)

| Laser  | Detector | Parameter | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr     | Br   | P/F  |
|--------|----------|-----------|-------------------------|----------------------|------|--------|--------|------|------|
| Blue   | FSC      | FSC       | 19103                   | 5.45                 | 579  | -11    | N/A    | N/A  | Pass |
| Blue   | F        | SSC       | 61143                   | 3.45                 | 414  | -7     | N/A    | N/A  | Pass |
| Blue   | E        | FITC      | 83                      | 62.90                | 459  | -4     | 0.0216 | 297  | Pass |
| Blue   | D        | PE        | 147                     | 44.35                | 495  | -3     | 0.1500 | 200  | Pass |
| Blue   | B        | PE-Cy5    | 223                     | 61.98                | 658  | -3     | 0.0068 | 162  | Pass |
| Blue   | A        | PE-Cy7    | 114                     | 117.30               | 702  | -2     | 0.0102 | 44   | Pass |
| Red    | C        | APC       | 432                     | 35.17                | 733  | -8     | 0.0134 | 55   | Pass |
| Red    | A        | APC-Cy7   | 201                     | 48.85                | 577  | -6     | 0.0026 | 1675 | Pass |
| Violet | B        | DAPI      | 99                      | 74.13                | 476  | -2     | 0.0417 | 3073 | Pass |
| Violet | A        | AmCyan    | 174                     | 43.32                | 530  | -1     | 0.0187 | 2147 | 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      | 47.71 - 71.57    | N/A          | N/A                     | -29.40                 | -28.93                          | 1.14                |
| Blue   | 20.25      | 16.21 - 24.31    | 1.38         | 1.14 - 1.70             | 0.00                   | 0.00                            | 1.26                |
| Red    | 16.07      | 12.75 - 19.13    | N/A          | N/A                     | 29.47                  | 29.92                           | 1.16                |

Window Extension: 7.00  
FSC Area Scaling Factor: 0.91

## Threshold

Threshold (FSC): 15077

## Fluidics

FACSFlow Pressure: 4.50  
Spec.: 4.40 - 4.60  
Sample Pressure: 4.30

Comments