

# 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:** 02/20/2017 09:19 AM  
**Cytometer Baseline:** 01/04/2017 03:58 PM  
**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       | 123537              | -2                        | 2.81                    | 123753                  | 2.84                 |
| Blue   | F        | SSC       | 125000       | 122148              | -3                        | 4.32                    | 122985                  | 4.25                 |
| Blue   | E        | FITC      | 20501        | 19555               | -5                        | 2.77                    | 476                     | 22.33                |
| Blue   | D        | PE        | 34373        | 33342               | -3                        | 1.93                    | 662                     | 17.37                |
| Blue   | B        | PE-Cy5    | 59337        | 57820               | -3                        | 4.92                    | 1152                    | 29.21                |
| Blue   | A        | PE-Cy7    | 48989        | 48502               | -1                        | 7.61                    | 645                     | 50.85                |
| Red    | C        | APC       | 60194        | 60419               | 0                         | 3.08                    | 1434                    | 18.12                |
| Red    | A        | APC-Cy7   | 52685        | 52272               | -1                        | 4.30                    | 835                     | 19.00                |
| Violet | B        | DAPI      | 11362        | 10907               | -5                        | 3.00                    | 785                     | 12.02                |
| Violet | A        | AmCyan    | 47125        | 45912               | -3                        | 2.92                    | 1422                    | 10.44                |

## Detector Settings (Continued)

| Laser  | Detector | Parameter | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr     | Br   | P/F  |
|--------|----------|-----------|-------------------------|----------------------|------|--------|--------|------|------|
| Blue   | FSC      | FSC       | 14292                   | 14.75                | 579  | -11    | N/A    | N/A  | Pass |
| Blue   | F        | SSC       | 61088                   | 3.82                 | 418  | -3     | N/A    | N/A  | Pass |
| Blue   | E        | FITC      | 84                      | 87.95                | 469  | -5     | 0.0187 | 858  | Pass |
| Blue   | D        | PE        | 166                     | 53.68                | 510  | -4     | 0.1496 | 372  | Pass |
| Blue   | B        | PE-Cy5    | 241                     | 72.37                | 674  | -5     | 0.0052 | 201  | Pass |
| Blue   | A        | PE-Cy7    | 126                     | 138.15               | 722  | -2     | 0.0081 | 62   | Pass |
| Red    | C        | APC       | 409                     | 35.36                | 724  | 3      | 0.0145 | 132  | Pass |
| Red    | A        | APC-Cy7   | 202                     | 44.82                | 570  | 0      | 0.0028 | 1520 | Pass |
| Violet | B        | DAPI      | 106                     | 67.54                | 464  | 5      | 0.0538 | 4054 | Pass |
| Violet | A        | AmCyan    | 179                     | 48.77                | 521  | 7      | 0.0187 | 3281 | 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 | 59.80      | 47.71 - 71.57    | N/A          | N/A                     | -29.88                 | -29.64                          | 1.18                |
| Blue   | 20.24      | 16.21 - 24.31    | 1.39         | 1.14 - 1.70             | 0.00                   | 0.00                            | 1.44                |
| Red    | 16.08      | 12.75 - 19.13    | N/A          | N/A                     | 30.45                  | 30.82                           | 1.18                |

Window Extension: 7.00  
FSC Area Scaling Factor: 0.88

## Threshold

Threshold (FSC): 10504

## Fluidics

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

Comments