

# 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:** 02/08/2016 10:08 AM  
**Cytometer Baseline:** 12/15/2015 01:27 PM  
**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       | 123440              | -2                        | 2.21                    | 123747                  | 2.21                 |
| Blue   | F        | SSC       | 125000       | 122079              | -3                        | 1.93                    | 122923                  | 1.91                 |
| Blue   | E        | FITC      | 19512        | 18419               | -6                        | 3.69                    | 444                     | 24.55                |
| Blue   | D        | PE        | 34487        | 33486               | -3                        | 3.73                    | 651                     | 19.02                |
| Blue   | B        | PE-Cy5    | 58285        | 56952               | -3                        | 5.97                    | 1143                    | 31.60                |
| Blue   | A        | PE-Cy7    | 46791        | 46486               | -1                        | 7.81                    | 654                     | 57.48                |
| Red    | C        | APC       | 58704        | 58386               | -1                        | 4.12                    | 1384                    | 17.74                |
| Red    | A        | APC-Cy7   | 53810        | 52586               | -3                        | 4.99                    | 914                     | 18.80                |
| Violet | B        | DAPI      | 11790        | 11206               | -5                        | 4.49                    | 831                     | 14.17                |
| Violet | A        | AmCyan    | 45340        | 43894               | -4                        | 4.46                    | 1349                    | 13.29                |

## Detector Settings (Continued)

| Laser  | Detector | Parameter | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr     | Br   | P/F  |
|--------|----------|-----------|-------------------------|----------------------|------|--------|--------|------|------|
| Blue   | FSC      | FSC       | 15683                   | 12.69                | 582  | -8     | N/A    | N/A  | Pass |
| Blue   | F        | SSC       | 61835                   | 1.53                 | 418  | -3     | N/A    | N/A  | Pass |
| Blue   | E        | FITC      | 79                      | 91.65                | 470  | -4     | 0.0144 | 672  | Pass |
| Blue   | D        | PE        | 165                     | 56.73                | 516  | -1     | 0.1238 | 332  | Pass |
| Blue   | B        | PE-Cy5    | 242                     | 80.31                | 685  | 8      | 0.0046 | 285  | Pass |
| Blue   | A        | PE-Cy7    | 126                     | 161.74               | 745  | 17     | 0.0061 | 82   | Pass |
| Red    | C        | APC       | 396                     | 33.64                | 711  | 6      | 0.0154 | 92   | Pass |
| Red    | A        | APC-Cy7   | 228                     | 43.02                | 570  | 9      | 0.0026 | 1657 | Pass |
| Violet | B        | DAPI      | 113                     | 80.31                | 485  | 8      | 0.0442 | 5462 | Pass |
| Violet | A        | AmCyan    | 170                     | 67.95                | 540  | 13     | 0.0138 | 5399 | 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                     | -30.08                 | -29.73                          | 1.19                |
| Blue   | 20.25      | 16.21 - 24.31    | 1.45         | 1.14 - 1.70             | 0.00                   | 0.00                            | 1.44                |
| Red    | 17.50      | 12.75 - 19.13    | N/A          | N/A                     | 29.06                  | 29.39                           | 1.18                |

Window Extension: 7.00  
FSC Area Scaling Factor: 0.89

## Threshold

Threshold (FSC): 9931

## Fluidics

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

Comments