

# 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:** 09/21/2015 09:39 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       | 122680              | -2                        | 3.01                    | 122801                  | 3.02                 |
| Blue   | F        | SSC       | 125000       | 122434              | -3                        | 2.76                    | 123395                  | 2.77                 |
| Blue   | E        | FITC      | 20752        | 19753               | -5                        | 3.22                    | 470                     | 23.41                |
| Blue   | D        | PE        | 34971        | 33974               | -3                        | 2.42                    | 677                     | 16.90                |
| Blue   | B        | PE-Cy5    | 59521        | 57950               | -3                        | 4.44                    | 1151                    | 27.02                |
| Blue   | A        | PE-Cy7    | 45673        | 44851               | -2                        | 6.98                    | 587                     | 48.56                |
| Red    | C        | APC       | 57794        | 57762               | -1                        | 2.58                    | 1383                    | 16.08                |
| Red    | A        | APC-Cy7   | 53499        | 52713               | -2                        | 3.69                    | 812                     | 16.79                |
| Violet | B        | DAPI      | 11638        | 11170               | -5                        | 3.31                    | 748                     | 14.11                |
| Violet | A        | AmCyan    | 43958        | 42785               | -3                        | 2.85                    | 1341                    | 12.81                |

## Detector Settings (Continued)

| Laser  | Detector | Parameter | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr     | Br   | P/F  |
|--------|----------|-----------|-------------------------|----------------------|------|--------|--------|------|------|
| Blue   | FSC      | FSC       | 16846                   | 10.73                | 581  | 8      | N/A    | N/A  | Pass |
| Blue   | F        | SSC       | 60180                   | 2.75                 | 411  | 1      | N/A    | N/A  | Pass |
| Blue   | E        | FITC      | 88                      | 89.93                | 467  | 1      | 0.0187 | 1021 | Pass |
| Blue   | D        | PE        | 170                     | 51.95                | 505  | 3      | 0.1584 | 367  | Pass |
| Blue   | B        | PE-Cy5    | 236                     | 69.55                | 649  | 11     | 0.0062 | 248  | Pass |
| Blue   | A        | PE-Cy7    | 119                     | 124.76               | 698  | 22     | 0.0088 | 46   | Pass |
| Red    | C        | APC       | 387                     | 30.58                | 689  | 2      | 0.0179 | 54   | Pass |
| Red    | A        | APC-Cy7   | 196                     | 38.44                | 542  | 5      | 0.0036 | 927  | Pass |
| Violet | B        | DAPI      | 100                     | 85.74                | 465  | 0      | 0.0532 | 5884 | Pass |
| Violet | A        | AmCyan    | 159                     | 78.62                | 514  | 0      | 0.0168 | 8751 | 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                     | -30.33                 | -29.87                          | 1.21                |
| Blue   | 20.25      | 16.21 - 24.31    | 1.39         | 1.14 - 1.70             | 0.00                   | 0.00                            | 1.46                |
| Red    | 17.64      | 13.20 - 19.80    | N/A          | N/A                     | 28.94                  | 29.40                           | 1.21                |

Window Extension: 7.00  
FSC Area Scaling Factor: 0.89

## Threshold

Threshold (FSC): 11348

## Fluidics

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

Comments