

# 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:** 02/22/2016 10:04 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       | 125047              | 0                         | 1.84                    | 125178                  | 1.86                 |
| Blue   | F        | SSC       | 125000       | 122423              | -3                        | 2.09                    | 123355                  | 2.10                 |
| Blue   | E        | FITC      | 19512        | 18495               | -6                        | 3.77                    | 437                     | 22.66                |
| Blue   | D        | PE        | 34487        | 33513               | -3                        | 3.87                    | 662                     | 18.21                |
| Blue   | B        | PE-Cy5    | 58285        | 57569               | -2                        | 5.64                    | 1142                    | 30.90                |
| Blue   | A        | PE-Cy7    | 46791        | 46292               | -2                        | 7.17                    | 586                     | 56.88                |
| Red    | C        | APC       | 58704        | 58817               | 0                         | 4.26                    | 1409                    | 17.47                |
| Red    | A        | APC-Cy7   | 53810        | 52795               | -2                        | 4.84                    | 807                     | 19.59                |
| Violet | B        | DAPI      | 11790        | 11307               | -5                        | 4.70                    | 763                     | 15.78                |
| Violet | A        | AmCyan    | 45340        | 44170               | -3                        | 4.70                    | 1375                    | 12.37                |

## Detector Settings (Continued)

| Laser  | Detector | Parameter | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr     | Br   | P/F  |
|--------|----------|-----------|-------------------------|----------------------|------|--------|--------|------|------|
| Blue   | FSC      | FSC       | 17102                   | 9.23                 | 578  | -12    | N/A    | N/A  | Pass |
| Blue   | F        | SSC       | 60869                   | 1.60                 | 417  | -4     | N/A    | N/A  | Pass |
| Blue   | E        | FITC      | 82                      | 80.63                | 470  | -4     | 0.0176 | 641  | Pass |
| Blue   | D        | PE        | 168                     | 54.96                | 515  | -2     | 0.1415 | 375  | Pass |
| Blue   | B        | PE-Cy5    | 235                     | 75.96                | 683  | 6      | 0.0046 | 169  | Pass |
| Blue   | A        | PE-Cy7    | 107                     | 162.28               | 733  | 5      | 0.0067 | 60   | Pass |
| Red    | C        | APC       | 400                     | 33.78                | 713  | 8      | 0.0161 | 140  | Pass |
| Red    | A        | APC-Cy7   | 196                     | 45.55                | 566  | 5      | 0.0027 | 1339 | Pass |
| Violet | B        | DAPI      | 101                     | 92.44                | 492  | 15     | 0.0376 | 4834 | Pass |
| Violet | A        | AmCyan    | 169                     | 57.42                | 546  | 19     | 0.0141 | 3440 | 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 | 59.62      | 47.71 - 71.57    | N/A          | N/A                     | -29.90                 | -29.61                          | 1.19                |
| Blue   | 20.26      | 16.21 - 24.31    | 1.39         | 1.14 - 1.70             | 0.00                   | 0.00                            | 1.45                |
| Red    | 16.98      | 12.75 - 19.13    | N/A          | N/A                     | 28.83                  | 29.14                           | 1.19                |

Window Extension: 7.00  
FSC Area Scaling Factor: 0.89

## Threshold

Threshold (FSC): 10998

## Fluidics

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

Comments