

# 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:** 03/26/2018 09:54 AM  
**Cytometer Baseline:** 10/23/2017 09:39 AM  
**P/F:** Pass

## Setup Beads

**Bead Product:** CST Setup Beads **Part #:** 910858  
**Lot ID:** 70106 **Expiration Date:** 01/31/2018 (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       | 124145              | -1                        | 1.05                    | 124332                  | 1.04                 |
| Blue   | F        | SSC       | 125000       | 123511              | -2                        | 2.51                    | 124534                  | 2.50                 |
| Blue   | E        | FITC      | 18535        | 17651               | -5                        | 2.50                    | 482                     | 16.32                |
| Blue   | D        | PE        | 29708        | 29219               | -2                        | 1.95                    | 785                     | 10.88                |
| Blue   | B        | PE-Cy5    | 70430        | 68700               | -3                        | 3.26                    | 1609                    | 16.63                |
| Blue   | A        | PE-Cy7    | 70607        | 68814               | -3                        | 5.55                    | 958                     | 24.87                |
| Red    | C        | APC       | 76673        | 76681               | 0                         | 3.06                    | 2440                    | 11.52                |
| Red    | A        | APC-Cy7   | 78803        | 77107               | -3                        | 5.59                    | 1462                    | 11.24                |
| Violet | B        | DAPI      | 11434        | 11220               | -2                        | 2.15                    | 809                     | 10.38                |
| Violet | A        | AmCyan    | 43596        | 42831               | -2                        | 1.73                    | 1247                    | 9.52                 |

## Detector Settings (Continued)

| Laser  | Detector | Parameter | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr     | Br   | P/F  |
|--------|----------|-----------|-------------------------|----------------------|------|--------|--------|------|------|
| Blue   | FSC      | FSC       | 18473                   | 4.19                 | 522  | -14    | N/A    | N/A  | Pass |
| Blue   | F        | SSC       | 57889                   | 2.37                 | 379  | -6     | N/A    | N/A  | Pass |
| Blue   | E        | FITC      | 71                      | 75.71                | 431  | -9     | 0.0339 | 700  | Pass |
| Blue   | D        | PE        | 134                     | 46.64                | 465  | -8     | 0.3273 | 430  | Pass |
| Blue   | B        | PE-Cy5    | 248                     | 46.11                | 601  | -8     | 0.0110 | 115  | Pass |
| Blue   | A        | PE-Cy7    | 153                     | 67.52                | 625  | -8     | 0.0225 | 23   | Pass |
| Red    | C        | APC       | 508                     | 25.29                | 669  | 2      | 0.0235 | 115  | Pass |
| Red    | A        | APC-Cy7   | 252                     | 29.02                | 517  | 2      | 0.0060 | 1938 | Pass |
| Violet | B        | DAPI      | 99                      | 65.89                | 440  | -2     | 0.0896 | 4941 | Pass |
| Violet | A        | AmCyan    | 151                     | 56.65                | 488  | -2     | 0.0338 | 7417 | 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      | 47.84 - 71.76    | N/A          | N/A                     | -30.06                 | -29.73                          | 1.23                |
| Blue   | 20.24      | 16.21 - 24.31    | 1.42         | 1.14 - 1.70             | 0.00                   | 0.00                            | 1.52                |
| Red    | 18.27      | 14.86 - 22.30    | N/A          | N/A                     | 27.76                  | 28.05                           | 1.34                |

Window Extension: 7.00  
FSC Area Scaling Factor: 0.91

## Threshold

Threshold (FSC): 9689

## Fluidics

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

Comments