

# 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:** 02/26/2018 09:14 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       | 124349              | -1                        | 0.89                    | 124499                  | 0.91                 |
| Blue   | F        | SSC       | 125000       | 123776              | -1                        | 2.11                    | 124993                  | 2.12                 |
| Blue   | E        | FITC      | 18535        | 18224               | -2                        | 2.42                    | 499                     | 15.63                |
| Blue   | D        | PE        | 29708        | 29151               | -2                        | 1.78                    | 790                     | 11.01                |
| Blue   | B        | PE-Cy5    | 70430        | 69819               | -1                        | 3.25                    | 1619                    | 17.09                |
| Blue   | A        | PE-Cy7    | 70607        | 69207               | -2                        | 5.00                    | 937                     | 26.65                |
| Red    | C        | APC       | 76673        | 76345               | -1                        | 3.38                    | 2440                    | 11.31                |
| Red    | A        | APC-Cy7   | 78803        | 76649               | -3                        | 5.15                    | 1412                    | 11.17                |
| Violet | B        | DAPI      | 11434        | 11055               | -4                        | 2.41                    | 780                     | 10.39                |
| Violet | A        | AmCyan    | 43596        | 42703               | -3                        | 2.18                    | 1246                    | 9.10                 |

## Detector Settings (Continued)

| Laser  | Detector | Parameter | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr     | Br   | P/F  |
|--------|----------|-----------|-------------------------|----------------------|------|--------|--------|------|------|
| Blue   | FSC      | FSC       | 18804                   | 4.17                 | 532  | -4     | N/A    | N/A  | Pass |
| Blue   | F        | SSC       | 57687                   | 1.98                 | 383  | -2     | N/A    | N/A  | Pass |
| Blue   | E        | FITC      | 73                      | 63.54                | 438  | -2     | 0.0302 | 235  | Pass |
| Blue   | D        | PE        | 133                     | 46.64                | 471  | -2     | 0.2898 | 363  | Pass |
| Blue   | B        | PE-Cy5    | 249                     | 47.34                | 609  | 0      | 0.0105 | 111  | Pass |
| Blue   | A        | PE-Cy7    | 150                     | 69.68                | 633  | 0      | 0.0194 | 8    | Pass |
| Red    | C        | APC       | 505                     | 25.75                | 667  | 0      | 0.0257 | 232  | Pass |
| Red    | A        | APC-Cy7   | 243                     | 29.98                | 514  | -1     | 0.0060 | 2156 | Pass |
| Violet | B        | DAPI      | 97                      | 64.86                | 441  | -1     | 0.0926 | 4741 | Pass |
| Violet | A        | AmCyan    | 151                     | 49.82                | 489  | -1     | 0.0327 | 5186 | 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      | 47.84 - 71.76    | N/A          | N/A                     | -30.24                 | -29.99                          | 1.22                |
| Blue   | 20.25      | 16.21 - 24.31    | 1.42         | 1.14 - 1.70             | 0.00                   | 0.00                            | 1.50                |
| Red    | 16.76      | 14.86 - 22.30    | N/A          | N/A                     | 27.94                  | 28.39                           | 1.33                |

Window Extension: 7.00  
FSC Area Scaling Factor: 0.91

## Threshold

Threshold (FSC): 9885

## Fluidics

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

Comments