

# 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:** 05/09/2016 10:31 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 (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       | 124243              | -1                        | 2.94                    | 124351                  | 2.96                 |
| Blue   | F        | SSC       | 125000       | 124042              | -1                        | 1.70                    | 124890                  | 1.62                 |
| Blue   | E        | FITC      | 19512        | 18786               | -4                        | 4.73                    | 444                     | 30.62                |
| Blue   | D        | PE        | 34487        | 33216               | -4                        | 4.28                    | 651                     | 23.55                |
| Blue   | B        | PE-Cy5    | 58285        | 56622               | -3                        | 5.84                    | 1105                    | 42.25                |
| Blue   | A        | PE-Cy7    | 46791        | 45798               | -3                        | 8.04                    | 580                     | 72.64                |
| Red    | C        | APC       | 58704        | 58691               | -1                        | 4.34                    | 1386                    | 20.72                |
| Red    | A        | APC-Cy7   | 53810        | 52423               | -3                        | 4.41                    | 792                     | 24.16                |
| Violet | B        | DAPI      | 11790        | 11064               | -7                        | 5.36                    | 733                     | 18.47                |
| Violet | A        | AmCyan    | 45340        | 43024               | -6                        | 5.61                    | 1332                    | 15.11                |

## Detector Settings (Continued)

| Laser  | Detector | Parameter | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr     | Br   | P/F  |
|--------|----------|-----------|-------------------------|----------------------|------|--------|--------|------|------|
| Blue   | FSC      | FSC       | 17350                   | 10.56                | 592  | 2      | N/A    | N/A  | Pass |
| Blue   | F        | SSC       | 63879                   | 1.52                 | 432  | 11     | N/A    | N/A  | Pass |
| Blue   | E        | FITC      | 84                      | 120.14               | 490  | 16     | 0.0118 | 1336 | Pass |
| Blue   | D        | PE        | 167                     | 73.49                | 539  | 22     | 0.0945 | 505  | Pass |
| Blue   | B        | PE-Cy5    | 217                     | 116.42               | 726  | 49     | 0.0026 | 332  | Pass |
| Blue   | A        | PE-Cy7    | 84                      | 265.85               | 777  | 49     | 0.0044 | 97   | Pass |
| Red    | C        | APC       | 399                     | 41.35                | 752  | 47     | 0.0115 | 210  | Pass |
| Red    | A        | APC-Cy7   | 193                     | 58.21                | 602  | 41     | 0.0018 | 1739 | Pass |
| Violet | B        | DAPI      | 95                      | 115.53               | 505  | 28     | 0.0324 | 6223 | Pass |
| Violet | A        | AmCyan    | 161                     | 76.96                | 560  | 33     | 0.0101 | 4689 | 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 | 59.59      | 47.71 - 71.57    | N/A          | N/A                     | -29.51                 | -29.32                          | 1.24                |
| Blue   | 20.25      | 16.21 - 24.31    | 1.40         | 1.14 - 1.70             | 0.00                   | 0.00                            | 1.46                |
| Red    | 14.17      | 12.75 - 19.13    | N/A          | N/A                     | 28.63                  | 28.85                           | 1.19                |

Window Extension: 7.00  
FSC Area Scaling Factor: 0.88

## Threshold

Threshold (FSC): 9892

## Fluidics

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

Comments