

# Cytometer Performance Report

|                          |  |                     |                               |
|--------------------------|--|---------------------|-------------------------------|
| Cytometer:               | FACSCantoII                              | User:               | Administrator                 |
| Cytometer Name:          | FACSCantoII                              | Institution:        | N/A                           |
| Serial Number:           | V96300958                                | Software:           | BD FACSDiva 8.0               |
| Input Device:            | Carousel                                 | Date:               | 08/22/2016 10:40 AM           |
| Setup Bead Position:     | 1  | Cytometer Baseline: | 12/15/2015 01:27 PM (Expired) |
| Cytometer Configuration: | Canto II Config 3-laser, 8-color (4-2-2) | 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       | 124960              | -1                        | 2.02                    | 125231                  | 1.99                 |
| Blue   | F        | SSC       | 125000       | 121474              | -3                        | 3.34                    | 122351                  | 3.24                 |
| Blue   | E        | FITC      | 19512        | 18488               | -6                        | 2.48                    | 445                     | 18.32                |
| Blue   | D        | PE        | 34487        | 33451               | -4                        | 1.67                    | 663                     | 15.17                |
| Blue   | B        | PE-Cy5    | 58285        | 56689               | -3                        | 3.99                    | 1140                    | 25.29                |
| Blue   | A        | PE-Cy7    | 46791        | 46379               | -1                        | 6.20                    | 637                     | 43.17                |
| Red    | C        | APC       | 58704        | 59221               | 0                         | 2.96                    | 1404                    | 18.79                |
| Red    | A        | APC-Cy7   | 53810        | 53090               | -2                        | 3.99                    | 883                     | 19.92                |
| Violet | B        | DAPI      | 11790        | 11091               | -6                        | 3.08                    | 804                     | 12.51                |
| Violet | A        | AmCyan    | 45340        | 44172               | -3                        | 3.03                    | 1371                    | 10.11                |

## Detector Settings (Continued)

| Laser  | Detector | Parameter | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr     | Br   | P/F  |
|--------|----------|-----------|-------------------------|----------------------|------|--------|--------|------|------|
| Blue   | FSC      | FSC       | 17313                   | 5.93                 | 581  | -9     | N/A    | N/A  | Pass |
| Blue   | F        | SSC       | 60287                   | 2.96                 | 407  | -14    | N/A    | N/A  | Pass |
| Blue   | E        | FITC      | 80                      | 61.19                | 455  | -19    | 0.0226 | 219  | Pass |
| Blue   | D        | PE        | 166                     | 44.48                | 498  | -19    | 0.1698 | 240  | Pass |
| Blue   | B        | PE-Cy5    | 243                     | 59.30                | 657  | -20    | 0.0067 | 111  | Pass |
| Blue   | A        | PE-Cy7    | 130                     | 109.01               | 701  | -27    | 0.0104 | 42   | Pass |
| Red    | C        | APC       | 393                     | 35.97                | 727  | 22     | 0.0130 | 55   | Pass |
| Red    | A        | APC-Cy7   | 214                     | 45.93                | 577  | 16     | 0.0023 | 1226 | Pass |
| Violet | B        | DAPI      | 106                     | 69.50                | 470  | -7     | 0.0439 | 3357 | Pass |
| Violet | A        | AmCyan    | 170                     | 44.57                | 524  | -3     | 0.0189 | 2447 | 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      | 47.71 - 71.57    | N/A          | N/A                     | -29.18                 | -28.69                          | 1.11                |
| Blue   | 20.24      | 16.21 - 24.31    | 1.39         | 1.14 - 1.70             | 0.00                   | 0.00                            | 1.28                |
| Red    | 14.61      | 12.75 - 19.13    | N/A          | N/A                     | 29.13                  | 29.69                           | 1.16                |

Window Extension: 7.00  
FSC Area Scaling Factor: 0.86

## Threshold

Threshold (FSC): 9779

## Fluidics

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

Comments