

# Cytometer Performance Report

|                          |  |                     |                     |
|--------------------------|--|---------------------|---------------------|
| Cytometer:               | FACSCantoII                              | User:               | Administrator       |
| Cytometer Name:          | FACSCantoII                              | Institution:        | N/A                 |
| Serial Number:           | V96300958                                | Software:           | BD FACSDiva 9.0     |
| Input Device:            | Carousel                                 | Date:               | 05/15/2023 09:56 AM |
| Tube Loaded Manually:    | Yes                                      | Cytometer Baseline: | 01/16/2023 10:20 AM |
| 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:** 82158                      **Expiration Date:** 08/31/2020 (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       | 123300              | -2                        | 1.95                    | 123591                  | 1.92                 |
| Blue   | F        | SSC       | 125000       | 123209              | -2                        | 2.17                    | 123719                  | 2.15                 |
| Blue   | E        | FITC      | 20434        | 19715               | -4                        | 2.63                    | 412                     | 20.80                |
| Blue   | D        | PE        | 34399        | 33465               | -3                        | 1.84                    | 710                     | 13.62                |
| Blue   | B        | PE-Cy5    | 48387        | 46963               | -3                        | 3.69                    | 1337                    | 20.05                |
| Blue   | A        | PE-Cy7    | 34835        | 33899               | -3                        | 5.57                    | 741                     | 30.54                |
| Red    | C        | APC       | 54234        | 53782               | -1                        | 2.97                    | 1726                    | 12.97                |
| Red    | A        | APC-Cy7   | 42473        | 41660               | -2                        | 3.14                    | 1218                    | 12.41                |
| Violet | B        | DAPI      | 10884        | 10308               | -6                        | 3.60                    | 722                     | 13.56                |
| Violet | A        | AmCyan    | 41787        | 39987               | -5                        | 3.41                    | 985                     | 15.00                |

## Detector Settings (Continued)

| Laser  | Detector | Parameter | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr     | Br    | P/F  |
|--------|----------|-----------|-------------------------|----------------------|------|--------|--------|-------|------|
| Blue   | FSC      | FSC       | 13592                   | 13.79                | 558  | -7     | N/A    | N/A   | Pass |
| Blue   | F        | SSC       | 57454                   | 1.58                 | 394  | -4     | N/A    | N/A   | Pass |
| Blue   | E        | FITC      | 74                      | 83.03                | 451  | -8     | 0.0261 | 785   | Pass |
| Blue   | D        | PE        | 143                     | 50.44                | 482  | -8     | 0.2354 | 399   | Pass |
| Blue   | B        | PE-Cy5    | 244                     | 56.61                | 620  | -10    | 0.0101 | 324   | Pass |
| Blue   | A        | PE-Cy7    | 138                     | 81.66                | 634  | -9     | 0.0186 | 49    | Pass |
| Red    | C        | APC       | 382                     | 27.31                | 663  | -4     | 0.0240 | 57    | Pass |
| Red    | A        | APC-Cy7   | 245                     | 30.41                | 522  | -2     | 0.0048 | 805   | Pass |
| Violet | B        | DAPI      | 100                     | 80.09                | 440  | -3     | 0.0711 | 8373  | Pass |
| Violet | A        | AmCyan    | 149                     | 79.30                | 502  | 0      | 0.0210 | 11957 | 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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Cytometer Name: FACSCantoII  
Serial Number: V96300958  
Input Device: Carousel  
Tube Loaded Manually: Yes  
Cytometer Configuration: Canto II Config 3-laser, 8-color (4-2-2)

User: Administrator  
Institution: N/A  
Software: BD FACSDiva 9.0  
Date: 05/15/2023 09:56 AM  
Cytometer Baseline: 01/16/2023 10:20 AM  
P/F: Pass

## 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                     | -30.08                 | -29.92                          | 1.16                |
| Blue   | 20.24      | 16.19 - 24.29    | 1.43         | 1.14 - 1.70             | 0.00                   | 0.00                            | 1.48                |
| Red    | 18.40      | 14.40 - 21.60    | N/A          | N/A                     | 27.71                  | 28.00                           | 1.26                |

Window Extension: 7.00  
FSC Area Scaling Factor: 0.90

## Threshold

Threshold (FSC): 9638

## Fluidics

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

Comments