

# Cytometer Performance Report

**Cytometer:** FACSCantoII  
**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:** 10/04/2021 09:52 AM  
**Cytometer Baseline:** 01/07/2021 10:46 AM  
**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       | 122801              | -2                        | 2.35                    | 123058                  | 2.30                 |
| Blue   | F        | SSC       | 125000       | 123487              | -2                        | 1.77                    | 124096                  | 1.70                 |
| Blue   | E        | FITC      | 20730        | 19999               | -4                        | 2.69                    | 421                     | 20.27                |
| Blue   | D        | PE        | 37062        | 36161               | -3                        | 1.87                    | 765                     | 13.80                |
| Blue   | B        | PE-Cy5    | 46445        | 44649               | -4                        | 3.90                    | 1300                    | 20.56                |
| Blue   | A        | PE-Cy7    | 33824        | 32841               | -3                        | 5.85                    | 725                     | 31.57                |
| Red    | C        | APC       | 57179        | 56339               | -2                        | 3.48                    | 1822                    | 14.40                |
| Red    | A        | APC-Cy7   | 43213        | 42933               | -1                        | 3.31                    | 1298                    | 13.42                |
| Violet | B        | DAPI      | 11061        | 10240               | -8                        | 5.49                    | 674                     | 12.85                |
| Violet | A        | AmCyan    | 46201        | 43855               | -6                        | 5.31                    | 1073                    | 11.95                |

## Detector Settings (Continued)

| Laser  | Detector | Parameter | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr     | Br   | P/F  |
|--------|----------|-----------|-------------------------|----------------------|------|--------|--------|------|------|
| Blue   | FSC      | FSC       | 15874                   | 13.40                | 558  | -7     | N/A    | N/A  | Pass |
| Blue   | F        | SSC       | 57144                   | 1.41                 | 397  | 5      | N/A    | N/A  | Pass |
| Blue   | E        | FITC      | 75                      | 68.20                | 456  | 4      | 0.0206 | 208  | Pass |
| Blue   | D        | PE        | 156                     | 50.38                | 493  | 2      | 0.2237 | 379  | Pass |
| Blue   | B        | PE-Cy5    | 234                     | 55.48                | 624  | 3      | 0.0090 | 211  | Pass |
| Blue   | A        | PE-Cy7    | 139                     | 78.96                | 639  | 2      | 0.0167 | 28   | Pass |
| Red    | C        | APC       | 404                     | 31.98                | 692  | 17     | 0.0197 | 164  | Pass |
| Red    | A        | APC-Cy7   | 273                     | 32.23                | 541  | 13     | 0.0039 | 988  | Pass |
| Violet | B        | DAPI      | 92                      | 71.31                | 450  | 7      | 0.0927 | 6955 | Pass |
| Violet | A        | AmCyan    | 155                     | 51.28                | 515  | 13     | 0.0251 | 4412 | 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                     | -29.75                 | -29.23                          | 1.17                |
| Blue   | 20.25      | 16.19 - 24.29    | 1.41         | 1.14 - 1.70             | 0.00                   | 0.00                            | 1.52                |
| Red    | 13.31      | 12.72 - 19.08    | N/A          | N/A                     | 27.27                  | 27.73                           | 1.32                |

Window Extension: 7.00  
FSC Area Scaling Factor: 0.89

## Threshold

Threshold (FSC): 9663

## Fluidics

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

Comments