

# Cytometer Performance Report

Cytometer: FACSriaII  
 Cytometer Name: FACSriaII  
 Serial Number: 1  
 Input Device: Manual  
 Cytometer Configuration: 100 microns 25PSI standard

User: Administrator  
 Institution: N/A  
 Software: BD FACSDiva 8.0.1  
 Date: 03/06/2017 10:59 AM  
 Cytometer Baseline: 01/23/2017 11:58 AM  
 P/F: Pass

## Setup Beads

Bead Product: CST Setup Beads Part #: 910858  
 Lot ID: 77840 Expiration Date: 04/30/2017  
 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       | 125386              | 0                         | 1.28                    | 125549                  | 1.28                 |
| Blue             | C        | SSC             | 125000       | 122442              | -3                        | 2.89                    | 123611                  | 2.92                 |
| Blue             | B        | Alexa Fluor 488 | 24259        | 24054               | -1                        | 2.45                    | 574                     | 16.99                |
| Blue             | A        | PerCP           | 32944        | 32774               | -1                        | 4.34                    | 874                     | 21.34                |
| Red              | C        | Alexa Fluor 647 | 25168        | 25078               | -1                        | 3.88                    | 687                     | 21.87                |
| Red              | B        | APC-Alexa 700   | 79842        | 79374               | -1                        | 2.94                    | 2162                    | 10.25                |
| Red              | A        | APC-Cy7         | 70914        | 71407               | 0                         | 3.98                    | 1741                    | 17.36                |
| 561 Yellow-Green | E        | DsRed           | 93811        | 93797               | -1                        | 2.07                    | 2451                    | 8.42                 |
| 561 Yellow-Green | D        | PE-Texas Red    | 71426        | 70323               | -2                        | 2.63                    | 1693                    | 13.71                |
| 561 Yellow-Green | C        | 7-AAD           | 77597        | 77175               | -1                        | 2.64                    | 2239                    | 14.30                |
| 561 Yellow-Green | B        | PE-Cy5-5        | 73870        | 73738               | -1                        | 2.81                    | 2113                    | 11.89                |
| 561 Yellow-Green | A        | PE-Cy7          | 22072        | 21015               | -5                        | 4.91                    | 486                     | 16.31                |

## Detector Settings (Continued)

| Laser            | Detector | Parameter       | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | $\Delta$ PMTV | Qr     | Br  | P/F  |
|------------------|----------|-----------------|-------------------------|----------------------|------|---------------|--------|-----|------|
| Blue             | FSC      | FSC             | 15704                   | 1.90                 | 335  | 0             | N/A    | N/A | Pass |
| Blue             | C        | SSC             | 63888                   | 2.36                 | 362  | 3             | N/A    | N/A | Pass |
| Blue             | B        | Alexa Fluor 488 | 98                      | 52.83                | 587  | 1             | 0.0240 | 0   | Pass |
| Blue             | A        | PerCP           | 140                     | 59.78                | 632  | -1            | 0.0046 | 298 | Pass |
| Red              | C        | Alexa Fluor 647 | 130                     | 51.37                | 600  | -3            | 0.0070 | 46  | Pass |
| Red              | B        | APC-Alexa 700   | 469                     | 22.34                | 620  | -2            | 0.0055 | 497 | Pass |
| Red              | A        | APC-Cy7         | 374                     | 38.48                | 677  | -2            | 0.0022 | 207 | Pass |
| 561 Yellow-Green | E        | DsRed           | 539                     | 18.81                | 665  | -3            | 0.3992 | 0   | Pass |
| 561 Yellow-Green | D        | PE-Texas Red    | 343                     | 32.47                | 635  | -4            | 0.0298 | 30  | Pass |
| 561 Yellow-Green | C        | 7-AAD           | 421                     | 35.58                | 726  | -6            | 0.0309 | 54  | Pass |

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|                  |   |          |     |       |     |    |        |     |      |
|------------------|---|----------|-----|-------|-----|----|--------|-----|------|
| 561 Yellow-Green | B | PE-Cy5-5 | 414 | 30.29 | 661 | -4 | 0.0250 | 272 | Pass |
| 561 Yellow-Green | A | PE-Cy7   | 105 | 34.97 | 488 | -4 | 0.0208 | 0   | Pass |

## Specifications

PMTV Delta from baseline: 50 (BD)  
Red Laser Primary Channel Bright Bead %Robust CV: 6.00 (Recommended)  
561 Yellow-Green Laser Primary Channel Bright Bead %Robust CV: 6.00 (Recommended)  
Blue Laser Primary Channel Bright Bead %Robust CV: 6.00 (Recommended)

## Laser Settings

| Laser            | Delay<br>(Trigger on FSC) | Delay<br>(Trigger on Fluorescence) | Area Scaling Factor |
|------------------|---------------------------|------------------------------------|---------------------|
| Red              | -73.29                    | -72.40                             | 1.02                |
| 561 Yellow-Green | -38.18                    | -37.33                             | 0.99                |
| Blue             | 0.00                      | 0.00                               | 1.13                |

Window Extension: 2.00  
FSC Area Scaling Factor: 0.86

## Threshold

Threshold (FSC): 9572

## Fluidics

Sheath Pressure: 24.89      Sample Pressure: 23.84  
Nozzle Size: 100

Comments