

# 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: 05/23/2016 10:00 AM  
 Cytometer Baseline: 04/26/2016 09:22 AM  
 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       | 124011              | -1                        | 2.04                    | 124143                  | 2.04                 |
| Blue             | C        | SSC             | 125000       | 124273              | -1                        | 2.43                    | 125378                  | 2.46                 |
| Blue             | B        | Alexa Fluor 488 | 23483        | 22834               | -3                        | 2.50                    | 525                     | 16.72                |
| Blue             | A        | PerCP           | 29631        | 29265               | -2                        | 4.16                    | 578                     | 25.19                |
| Red              | C        | Alexa Fluor 647 | 23800        | 23828               | 0                         | 3.74                    | 466                     | 25.47                |
| Red              | B        | APC-Alexa 700   | 89291        | 89673               | 0                         | 2.22                    | 1591                    | 11.00                |
| Red              | A        | APC-Cy7         | 79063        | 79483               | 0                         | 3.00                    | 1248                    | 20.00                |
| 561 Yellow-Green | E        | DsRed           | 89499        | 89434               | -1                        | 1.69                    | 1964                    | 9.38                 |
| 561 Yellow-Green | D        | PE-Texas Red    | 76034        | 75261               | -2                        | 2.26                    | 1468                    | 15.46                |
| 561 Yellow-Green | C        | 7-AAD           | 86998        | 86713               | -1                        | 2.49                    | 1822                    | 16.58                |
| 561 Yellow-Green | B        | PE-Cy5-5        | 84542        | 84993               | 0                         | 2.29                    | 1668                    | 13.83                |
| 561 Yellow-Green | A        | PE-Cy7          | 21961        | 21262               | -4                        | 2.84                    | 327                     | 17.57                |

## Detector Settings (Continued)

| Laser            | Detector | Parameter       | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | $\Delta$ PMTV | Qr     | Br  | P/F  |
|------------------|----------|-----------------|-------------------------|----------------------|------|---------------|--------|-----|------|
| Blue             | FSC      | FSC             | 14318                   | 4.55                 | 329  | -5            | N/A    | N/A | Pass |
| Blue             | C        | SSC             | 67628                   | 2.88                 | 363  | 2             | N/A    | N/A | Pass |
| Blue             | B        | Alexa Fluor 488 | 100                     | 47.77                | 577  | -2            | 0.0256 | 0   | Pass |
| Blue             | A        | PerCP           | 111                     | 63.75                | 614  | 0             | 0.0044 | 242 | Pass |
| Red              | C        | Alexa Fluor 647 | 122                     | 52.33                | 595  | -1            | 0.0077 | 97  | Pass |
| Red              | B        | APC-Alexa 700   | 382                     | 22.26                | 618  | 2             | 0.0061 | 0   | Pass |
| Red              | A        | APC-Cy7         | 294                     | 42.88                | 674  | 3             | 0.0022 | 138 | Pass |
| 561 Yellow-Green | E        | DsRed           | 575                     | 17.67                | 655  | -1            | 0.3756 | 0   | Pass |
| 561 Yellow-Green | D        | PE-Texas Red    | 406                     | 31.54                | 642  | -2            | 0.0280 | 38  | Pass |
| 561 Yellow-Green | C        | 7-AAD           | 446                     | 35.00                | 723  | -2            | 0.0298 | 28  | Pass |

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|                  |   |          |     |       |     |   |        |     |      |
|------------------|---|----------|-----|-------|-----|---|--------|-----|------|
| 561 Yellow-Green | B | PE-Cy5-5 | 386 | 31.63 | 657 | 1 | 0.0237 | 167 | Pass |
| 561 Yellow-Green | A | PE-Cy7   | 76  | 38.51 | 478 | 0 | 0.0222 | 28  | 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              | -72.82                    | -71.86                             | 1.03                |
| 561 Yellow-Green | -38.05                    | -37.19                             | 0.99                |
| Blue             | 0.00                      | 0.00                               | 1.12                |

Window Extension: 2.00  
FSC Area Scaling Factor: 0.86

## Threshold

Threshold (FSC): 12235

## Fluidics

Sheath Pressure: 24.79      Sample Pressure: 23.71  
Nozzle Size: 100

Comments