

# Cytometer Performance Report

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

User: BService  
 Institution: N/A  
 Software: BD FACSDiva 8.0.1  
 Date: 06/26/2017 03:59 PM  
 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 (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       | 124893              | -1                        | 2.6                     | 125166                  | 2.55                 |
| Blue             | C        | SSC             | 125000       | 123304              | -2                        | 3.14                    | 124570                  | 3.1                  |
| Blue             | B        | Alexa Fluor 488 | 24259        | 23787               | -2                        | 3.58                    | 562                     | 31.56                |
| Blue             | A        | PerCP           | 32944        | 32752               | -1                        | 5.39                    | 889                     | 27.64                |
| Red              | C        | Alexa Fluor 647 | 25168        | 24546               | -3                        | 4.31                    | 666                     | 24.6                 |
| Red              | B        | APC-Alexa 700   | 79842        | 77994               | -3                        | 4.65                    | 2144                    | 10.63                |
| Red              | A        | APC-Cy7         | 70914        | 69708               | -2                        | 5.95                    | 1760                    | 18.11                |
| 561 Yellow-Green | E        | DsRed           | 93811        | 92712               | -2                        | 3.01                    | 2380                    | 10.88                |
| 561 Yellow-Green | D        | PE-Texas Red    | 71426        | 70362               | -2                        | 3.62                    | 1680                    | 32.66                |
| 561 Yellow-Green | C        | 7-AAD           | 77597        | 79448               | 2                         | 5.06                    | 2316                    | 17.02                |
| 561 Yellow-Green | B        | PE-Cy5-5        | 73870        | 72484               | -2                        | 5.58                    | 2119                    | 13.64                |
| 561 Yellow-Green | A        | PE-Cy7          | 22072        | 21079               | -5                        | 6.75                    | 508                     | 16.98                |

## Detector Settings (Continued)

| Laser            | Detector | Parameter       | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | $\Delta$ PMTV | Qr     | Br   | P/F  |
|------------------|----------|-----------------|-------------------------|----------------------|------|---------------|--------|------|------|
| Blue             | FSC      | FSC             | 15182                   | 3.76                 | 341  | 6             | N/A    | N/A  | Pass |
| Blue             | C        | SSC             | 62981                   | 2.98                 | 367  | 8             | N/A    | N/A  | Pass |
| Blue             | B        | Alexa Fluor 488 | 96                      | 122.99               | 593  | 7             | 0.0088 | 754  | Pass |
| Blue             | A        | PerCP           | 138                     | 101.19               | 642  | 9             | 0.0032 | 1390 | Pass |
| Red              | C        | Alexa Fluor 647 | 122                     | 64.41                | 604  | 1             | 0.0058 | 214  | Pass |
| Red              | B        | APC-Alexa 700   | 443                     | 24.21                | 628  | 6             | 0.0061 | 1642 | Pass |
| Red              | A        | APC-Cy7         | 367                     | 42.13                | 685  | 6             | 0.0022 | 857  | Pass |
| 561 Yellow-Green | E        | DsRed           | 516                     | 27.87                | 666  | -2            | 0.2812 | 43   | Pass |
| 561 Yellow-Green | D        | PE-Texas Red    | 327                     | 107.03               | 636  | -3            | 0.0069 | 641  | Pass |
| 561 Yellow-Green | C        | 7-AAD           | 427                     | 48.41                | 737  | 5             | 0.0255 | 249  | Pass |

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|                  |   |          |     |       |     |   |        |     |      |
|------------------|---|----------|-----|-------|-----|---|--------|-----|------|
| 561 Yellow-Green | B | PE-Cy5-5 | 409 | 35.84 | 668 | 3 | 0.0222 | 511 | Pass |
| 561 Yellow-Green | A | PE-Cy7   | 106 | 39.09 | 495 | 3 | 0.0211 | 126 | 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              | -74.83                    | -73.78                             | 1.01                |
| 561 Yellow-Green | -38.99                    | -38.05                             | 0.97                |
| Blue             | 0.00                      | 0.00                               | 1.10                |

Window Extension: 2.00  
FSC Area Scaling Factor: 0.83

## Threshold

Threshold (FSC): 9619

## Fluidics

Sheath Pressure: 24.81      Sample Pressure: 23.84  
Nozzle Size: 100

Comments