

# 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: 07/20/2020 11:10 AM  
 Cytometer Baseline: 01/06/2020 04:02 PM (Expired)  
 P/F: Pass

## Setup Beads

Bead Product: CST Setup Beads Part #: 910858  
 Lot ID: 83326 Expiration Date: 11/30/2020  
 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       | 124253              | -1                        | 2.67                    | 124308                  | 2.65                 |
| Blue             | C        | SSC             | 125000       | 123846              | -1                        | 3.77                    | 124604                  | 3.84                 |
| Blue             | B        | Alexa Fluor 488 | 29683        | 29735               | 0                         | 3.35                    | 739                     | 19.17                |
| Blue             | A        | PerCP           | 28186        | 28315               | 0                         | 5.90                    | 849                     | 29.17                |
| Red              | C        | Alexa Fluor 647 | 20935        | 20927               | -1                        | 4.31                    | 591                     | 20.09                |
| Red              | B        | APC-Alexa 700   | 64225        | 64857               | 0                         | 4.82                    | 2008                    | 9.36                 |
| Red              | A        | APC-Cy7         | 56829        | 57466               | 1                         | 6.01                    | 1632                    | 16.13                |
| 561 Yellow-Green | E        | DsRed           | 99854        | 99063               | -1                        | 1.53                    | 2423                    | 7.70                 |
| 561 Yellow-Green | D        | PE-Texas Red    | 76183        | 75452               | -1                        | 2.01                    | 1685                    | 12.48                |
| 561 Yellow-Green | C        | 7-AAD           | 75562        | 75785               | 0                         | 2.74                    | 2332                    | 13.49                |
| 561 Yellow-Green | B        | PE-Cy5-5        | 59959        | 59807               | -1                        | 3.93                    | 1964                    | 11.53                |
| 561 Yellow-Green | A        | PE-Cy7          | 13836        | 13161               | -5                        | 5.36                    | 358                     | 15.20                |

## Detector Settings (Continued)

| Laser            | Detector | Parameter       | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr     | Br   | P/F  |
|------------------|----------|-----------------|-------------------------|----------------------|------|--------|--------|------|------|
| Blue             | FSC      | FSC             | 15674                   | 7.16                 | 433  | 10     | N/A    | N/A  | Pass |
| Blue             | C        | SSC             | 56280                   | 3.92                 | 380  | 16     | N/A    | N/A  | Pass |
| Blue             | B        | Alexa Fluor 488 | 117                     | 56.69                | 648  | 14     | 0.0175 | 0    | Pass |
| Blue             | A        | PerCP           | 123                     | 91.45                | 679  | 14     | 0.0029 | 368  | Pass |
| Red              | C        | Alexa Fluor 647 | 113                     | 47.65                | 576  | -3     | 0.0099 | 77   | Pass |
| Red              | B        | APC-Alexa 700   | 496                     | 18.80                | 600  | -2     | 0.0118 | 1253 | Pass |
| Red              | A        | APC-Cy7         | 408                     | 33.48                | 654  | -2     | 0.0034 | 554  | Pass |
| 561 Yellow-Green | E        | DsRed           | 525                     | 17.34                | 643  | -4     | 0.5342 | 0    | Pass |
| 561 Yellow-Green | D        | PE-Texas Red    | 346                     | 29.31                | 611  | -5     | 0.0386 | 0    | Pass |
| 561 Yellow-Green | C        | 7-AAD           | 474                     | 31.64                | 717  | -6     | 0.0371 | 0    | Pass |

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|                  |   |          |     |       |     |    |        |     |      |
|------------------|---|----------|-----|-------|-----|----|--------|-----|------|
| 561 Yellow-Green | B | PE-Cy5-5 | 441 | 26.65 | 637 | -9 | 0.0330 | 194 | Pass |
| 561 Yellow-Green | A | PE-Cy7   | 88  | 31.65 | 459 | -8 | 0.0283 | 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              | -73.30                    | -72.86                             | 1.01                |
| 561 Yellow-Green | -38.12                    | -37.64                             | 0.99                |
| Blue             | 0.00                      | 0.00                               | 1.15                |

Window Extension: 2.00  
FSC Area Scaling Factor: 1.02

## Threshold

Threshold (FSC): 9578

## Fluidics

Sheath Pressure: 24.73      Sample Pressure: 23.73  
Nozzle Size: 100

Comments