

# 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: 06/03/2019 10:57 AM  
 Cytometer Baseline: 01/07/2019 04:25 PM  
 P/F: Pass

## Setup Beads

Bead Product: CST Setup Beads Part #: 910858  
 Lot ID: 72518 Expiration Date: 09/30/2019  
 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       | 126305              | 1                         | 1.19                    | 126408                  | 1.17                 |
| Blue             | C        | SSC             | 125000       | 122155              | -3                        | 2.09                    | 123163                  | 2.12                 |
| Blue             | B        | Alexa Fluor 488 | 27175        | 26839               | -2                        | 2.42                    | 667                     | 16.85                |
| Blue             | A        | PerCP           | 34893        | 34416               | -2                        | 4.84                    | 990                     | 22.73                |
| Red              | C        | Alexa Fluor 647 | 25689        | 25315               | -2                        | 3.35                    | 672                     | 18.76                |
| Red              | B        | APC-Alexa 700   | 82209        | 80886               | -2                        | 4.35                    | 2725                    | 7.8                  |
| Red              | A        | APC-Cy7         | 72773        | 71829               | -2                        | 5.7                     | 2225                    | 13.49                |
| 561 Yellow-Green | E        | DsRed           | 99857        | 99648               | -1                        | 1.81                    | 2445                    | 7.18                 |
| 561 Yellow-Green | D        | PE-Texas Red    | 77376        | 76457               | -2                        | 2.22                    | 1747                    | 11.56                |
| 561 Yellow-Green | C        | 7-AAD           | 84099        | 83109               | -2                        | 2.63                    | 2608                    | 11.79                |
| 561 Yellow-Green | B        | PE-Cy5-5        | 74528        | 73288               | -2                        | 3.72                    | 2502                    | 9.94                 |
| 561 Yellow-Green | A        | PE-Cy7          | 19231        | 17941               | -7                        | 5.92                    | 522                     | 12.69                |

## Detector Settings (Continued)

| Laser            | Detector | Parameter       | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | $\Delta$ PMTV | Qr     | Br   | P/F  |
|------------------|----------|-----------------|-------------------------|----------------------|------|---------------|--------|------|------|
| Blue             | FSC      | FSC             | 17247                   | 2.34                 | 352  | 36            | N/A    | N/A  | Pass |
| Blue             | C        | SSC             | 58061                   | 1.61                 | 356  | 17            | N/A    | N/A  | Pass |
| Blue             | B        | Alexa Fluor 488 | 107                     | 50.51                | 603  | 24            | 0.0228 | 0    | Pass |
| Blue             | A        | PerCP           | 139                     | 67.85                | 650  | 24            | 0.0041 | 264  | Pass |
| Red              | C        | Alexa Fluor 647 | 112                     | 45.3                 | 572  | 0             | 0.0098 | 0    | Pass |
| Red              | B        | APC-Alexa 700   | 385                     | 20.38                | 590  | -1            | 0.0153 | 1768 | Pass |
| Red              | A        | APC-Cy7         | 306                     | 37.19                | 647  | 1             | 0.0037 | 467  | Pass |
| 561 Yellow-Green | E        | DsRed           | 552                     | 15.84                | 632  | -1            | 0.6215 | 0    | Pass |
| 561 Yellow-Green | D        | PE-Texas Red    | 363                     | 26.92                | 602  | -4            | 0.0438 | 0    | Pass |
| 561 Yellow-Green | C        | 7-AAD           | 420                     | 31.87                | 701  | -2            | 0.0446 | 36   | Pass |

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|                  |   |          |     |       |     |     |        |     |      |
|------------------|---|----------|-----|-------|-----|-----|--------|-----|------|
| 561 Yellow-Green | B | PE-Cy5-5 | 361 | 28.74 | 629 | -15 | 0.0354 | 195 | Pass |
| 561 Yellow-Green | A | PE-Cy7   | 75  | 32.06 | 456 | -3  | 0.0326 | 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              | -71.34                    | -70.78                             | 1.04                |
| 561 Yellow-Green | -37.13                    | -36.55                             | 1.02                |
| Blue             | 0.00                      | 0.00                               | 1.19                |

Window Extension: 2.00  
FSC Area Scaling Factor: 0.97

## Threshold

Threshold (FSC): 11698

## Fluidics

Sheath Pressure: 24.85      Sample Pressure: 23.77  
Nozzle Size: 100

Comments