

# 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: 12/19/2016 01:41 PM  
 Cytometer Baseline: 07/05/2016 09:47 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       | 124990              | -1                        | 2.59                    | 124991                  | 2.64                 |
| Blue             | C        | SSC             | 125000       | 123932              | -1                        | 4.28                    | 125290                  | 4.28                 |
| Blue             | B        | Alexa Fluor 488 | 24248        | 23969               | -2                        | 3.78                    | 556                     | 20.19                |
| Blue             | A        | PerCP           | 33887        | 33681               | -1                        | 5.32                    | 880                     | 23.03                |
| Red              | C        | Alexa Fluor 647 | 25051        | 24627               | -2                        | 4.27                    | 661                     | 22.23                |
| Red              | B        | APC-Alexa 700   | 81413        | 80435               | -2                        | 2.97                    | 2163                    | 10.16                |
| Red              | A        | APC-Cy7         | 71355        | 70934               | -1                        | 3.95                    | 1726                    | 18.26                |
| 561 Yellow-Green | E        | DsRed           | 88389        | 87909               | -1                        | 3.25                    | 2277                    | 9.48                 |
| 561 Yellow-Green | D        | PE-Texas Red    | 74661        | 74129               | -1                        | 3.70                    | 1770                    | 14.93                |
| 561 Yellow-Green | C        | 7-AAD           | 84478        | 83872               | -1                        | 3.85                    | 2402                    | 15.29                |
| 561 Yellow-Green | B        | PE-Cy5-5        | 76749        | 75945               | -2                        | 3.85                    | 2156                    | 13.60                |
| 561 Yellow-Green | A        | PE-Cy7          | 18983        | 18230               | -4                        | 4.42                    | 414                     | 16.32                |

## Detector Settings (Continued)

| Laser            | Detector | Parameter       | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | $\Delta$ PMTV | Qr     | Br  | P/F  |
|------------------|----------|-----------------|-------------------------|----------------------|------|---------------|--------|-----|------|
| Blue             | FSC      | FSC             | 15214                   | 5.04                 | 335  | 0             | N/A    | N/A | Pass |
| Blue             | C        | SSC             | 64730                   | 3.80                 | 362  | 3             | N/A    | N/A | Pass |
| Blue             | B        | Alexa Fluor 488 | 94                      | 54.71                | 586  | 2             | 0.0160 | 0   | Pass |
| Blue             | A        | PerCP           | 135                     | 64.25                | 638  | 4             | 0.0041 | 222 | Pass |
| Red              | C        | Alexa Fluor 647 | 104                     | 58.14                | 602  | -1            | 0.0069 | 58  | Pass |
| Red              | B        | APC-Alexa 700   | 409                     | 22.55                | 623  | 1             | 0.0055 | 0   | Pass |
| Red              | A        | APC-Cy7         | 327                     | 41.23                | 680  | 3             | 0.0019 | 0   | Pass |
| 561 Yellow-Green | E        | DsRed           | 430                     | 21.52                | 663  | 2             | 0.3327 | 0   | Pass |
| 561 Yellow-Green | D        | PE-Texas Red    | 306                     | 35.51                | 643  | -2            | 0.0251 | 0   | Pass |
| 561 Yellow-Green | C        | 7-AAD           | 402                     | 40.53                | 740  | 3             | 0.0283 | 60  | Pass |

# 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: 12/19/2016 01:41 PM  
Cytometer Baseline: 07/05/2016 09:47 AM  
P/F: Pass

|                  |   |          |     |       |     |    |        |    |      |
|------------------|---|----------|-----|-------|-----|----|--------|----|------|
| 561 Yellow-Green | B | PE-Cy5-5 | 366 | 34.46 | 666 | 3  | 0.0185 | 83 | Pass |
| 561 Yellow-Green | A | PE-Cy7   | 79  | 37.06 | 479 | -2 | 0.0206 | 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              | -73.55                    | -71.77                             | 1.02                |
| 561 Yellow-Green | -38.72                    | -37.09                             | 0.99                |
| Blue             | 0.00                      | 0.00                               | 1.13                |

Window Extension: 2.00  
FSC Area Scaling Factor: 0.78

## Threshold

Threshold (FSC): 9558

## Fluidics

Sheath Pressure: 24.82      Sample Pressure: 23.84  
Nozzle Size: 100

Comments