

# 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: 06/04/2018 11:26 AM  
 Cytometer Baseline: 02/01/2018 10:15 AM  
 P/F: Pass

## Setup Beads

Bead Product: CST Setup Beads Part #: 910858  
 Lot ID: 70106 Expiration Date: 01/31/2018 (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       | 125262              | 0                         | 1.97                    | 125395                  | 1.95                 |
| Blue             | C        | SSC             | 125000       | 123045              | -2                        | 3.67                    | 124240                  | 3.76                 |
| Blue             | B        | Alexa Fluor 488 | 28577        | 28173               | -2                        | 3.23                    | 767                     | 14.12                |
| Blue             | A        | PerCP           | 46788        | 45816               | -3                        | 4.44                    | 1036                    | 18.38                |
| Red              | C        | Alexa Fluor 647 | 30278        | 29814               | -2                        | 3.56                    | 800                     | 16.58                |
| Red              | B        | APC-Alexa 700   | 132138       | 131261              | -1                        | 3.88                    | 2786                    | 7.90                 |
| Red              | A        | APC-Cy7         | 121354       | 119931              | -2                        | 4.81                    | 2197                    | 13.36                |
| 561 Yellow-Green | E        | DsRed           | 85861        | 85825               | -1                        | 1.85                    | 2549                    | 6.90                 |
| 561 Yellow-Green | D        | PE-Texas Red    | 70915        | 70637               | -1                        | 2.25                    | 1943                    | 11.02                |
| 561 Yellow-Green | C        | 7-AAD           | 98107        | 97867               | -1                        | 2.28                    | 2600                    | 11.24                |
| 561 Yellow-Green | B        | PE-Cy5-5        | 113747       | 112075              | -2                        | 2.89                    | 2571                    | 10.05                |
| 561 Yellow-Green | A        | PE-Cy7          | 33071        | 32067               | -4                        | 3.62                    | 539                     | 12.47                |

## Detector Settings (Continued)

| Laser            | Detector | Parameter       | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | $\Delta$ PMTV | Qr     | Br  | P/F  |
|------------------|----------|-----------------|-------------------------|----------------------|------|---------------|--------|-----|------|
| Blue             | FSC      | FSC             | 17823                   | 3.44                 | 309  | 6             | N/A    | N/A | Pass |
| Blue             | C        | SSC             | 59282                   | 3.58                 | 338  | 0             | N/A    | N/A | Pass |
| Blue             | B        | Alexa Fluor 488 | 113                     | 44.79                | 577  | 3             | 0.0315 | 0   | Pass |
| Blue             | A        | PerCP           | 152                     | 51.72                | 611  | -1            | 0.0060 | 201 | Pass |
| Red              | C        | Alexa Fluor 647 | 150                     | 38.36                | 565  | -1            | 0.0111 | 38  | Pass |
| Red              | B        | APC-Alexa 700   | 480                     | 17.88                | 589  | -5            | 0.0103 | 615 | Pass |
| Red              | A        | APC-Cy7         | 373                     | 32.58                | 644  | 0             | 0.0034 | 289 | Pass |
| 561 Yellow-Green | E        | DsRed           | 505                     | 16.64                | 627  | -1            | 0.6077 | 0   | Pass |
| 561 Yellow-Green | D        | PE-Texas Red    | 357                     | 27.42                | 602  | -5            | 0.0428 | 8   | Pass |
| 561 Yellow-Green | C        | 7-AAD           | 428                     | 29.29                | 689  | -5            | 0.0402 | 12  | Pass |

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|                  |   |          |     |       |     |     |        |     |      |
|------------------|---|----------|-----|-------|-----|-----|--------|-----|------|
| 561 Yellow-Green | B | PE-Cy5-5 | 410 | 27.19 | 637 | -18 | 0.0296 | 161 | Pass |
| 561 Yellow-Green | A | PE-Cy7   | 89  | 30.67 | 457 | -4  | 0.0288 | 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              | -70.02                    | -69.21                             | 1.05                |
| 561 Yellow-Green | -36.42                    | -35.67                             | 1.03                |
| Blue             | 0.00                      | 0.00                               | 1.18                |

Window Extension: 2.00  
FSC Area Scaling Factor: 0.95

## Threshold

Threshold (FSC): 11793

## Fluidics

Sheath Pressure: 24.74      Sample Pressure: 23.77  
Nozzle Size: 100

Comments