

# 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: 01/12/2018 09:43 AM  
 Cytometer Baseline: 01/12/2018 09:37 AM  
 P/F: Pass

## Setup Beads

Bead Product: CST Setup Beads Part #: 910858  
 Lot ID: 70106 Expiration Date: 01/31/2018  
 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       | 124637              | -1                        | 1.14                    | 124781                  | 1.14                 |
| Blue             | C        | SSC             | 125000       | 123632              | -2                        | 2.07                    | 124963                  | 2.06                 |
| Blue             | B        | Alexa Fluor 488 | 24570        | 24038               | -3                        | 1.97                    | 664                     | 13.43                |
| Blue             | A        | PerCP           | 41496        | 40818               | -2                        | 3.52                    | 907                     | 18.21                |
| Red              | C        | Alexa Fluor 647 | 27716        | 27349               | -2                        | 2.87                    | 733                     | 15.98                |
| Red              | B        | APC-Alexa 700   | 113969       | 112471              | -2                        | 2.81                    | 2311                    | 7.61                 |
| Red              | A        | APC-Cy7         | 111163       | 110189              | -1                        | 4.52                    | 1953                    | 14.71                |
| 561 Yellow-Green | E        | DsRed           | 80518        | 79851               | -1                        | 1.54                    | 2362                    | 6.74                 |
| 561 Yellow-Green | D        | PE-Texas Red    | 63915        | 63451               | -1                        | 1.97                    | 1742                    | 10.87                |
| 561 Yellow-Green | C        | 7-AAD           | 99352        | 98120               | -2                        | 2.05                    | 2575                    | 10.75                |
| 561 Yellow-Green | B        | PE-Cy5-5        | 111141       | 109572              | -2                        | 2.26                    | 2465                    | 10.41                |
| 561 Yellow-Green | A        | PE-Cy7          | 31484        | 30027               | -5                        | 7.01                    | 494                     | 13.93                |

## Detector Settings (Continued)

| Laser            | Detector | Parameter       | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr     | Br  | P/F  |
|------------------|----------|-----------------|-------------------------|----------------------|------|--------|--------|-----|------|
| Blue             | FSC      | FSC             | 13486                   | 2.64                 | 321  | 2      | N/A    | N/A | Pass |
| Blue             | C        | SSC             | 59617                   | 1.46                 | 345  | -4     | N/A    | N/A | Pass |
| Blue             | B        | Alexa Fluor 488 | 95                      | 48.27                | 567  | -2     | 0.0355 | 0   | Pass |
| Blue             | A        | PerCP           | 131                     | 55.28                | 606  | -1     | 0.0063 | 355 | Pass |
| Red              | C        | Alexa Fluor 647 | 138                     | 38.12                | 559  | -1     | 0.0120 | 90  | Pass |
| Red              | B        | APC-Alexa 700   | 398                     | 18.39                | 585  | -1     | 0.0100 | 740 | Pass |
| Red              | A        | APC-Cy7         | 331                     | 35.85                | 656  | -1     | 0.0027 | 132 | Pass |
| 561 Yellow-Green | E        | DsRed           | 462                     | 16.75                | 621  | -1     | 0.6323 | 3   | Pass |
| 561 Yellow-Green | D        | PE-Texas Red    | 318                     | 27.49                | 598  | -1     | 0.0439 | 16  | Pass |
| 561 Yellow-Green | C        | 7-AAD           | 424                     | 29.38                | 691  | -1     | 0.0452 | 50  | Pass |

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|                  |   |          |     |       |     |    |        |     |      |
|------------------|---|----------|-----|-------|-----|----|--------|-----|------|
| 561 Yellow-Green | B | PE-Cy5-5 | 395 | 28.27 | 651 | -1 | 0.0268 | 137 | Pass |
| 561 Yellow-Green | A | PE-Cy7   | 82  | 31.40 | 459 | -3 | 0.0290 | 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              | -75.45                    | -74.63                             | 0.99                |
| 561 Yellow-Green | -39.27                    | -38.46                             | 0.97                |
| Blue             | 0.00                      | 0.00                               | 1.12                |

Window Extension: 2.00  
FSC Area Scaling Factor: 0.92

## Threshold

Threshold (FSC): 10513

## Fluidics

Sheath Pressure: 24.88      Sample Pressure: 23.77  
Nozzle Size: 100

Comments