

# 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: 09/30/2019 11:47 AM  
 Cytometer Baseline: 08/26/2019 03:19 PM  
 P/F: Pass

## Setup Beads

Bead Product: CST Setup Beads Part #: 910858  
 Lot ID: 72518 Expiration Date: 09/30/2019 (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       | 124489              | -1                        | 1.70                    | 124597                  | 1.73                 |
| Blue             | C        | SSC             | 125000       | 122645              | -2                        | 3.29                    | 123696                  | 3.35                 |
| Blue             | B        | Alexa Fluor 488 | 33225        | 32912               | -1                        | 3.30                    | 817                     | 16.80                |
| Blue             | A        | PerCP           | 28292        | 28597               | 1                         | 6.48                    | 826                     | 26.29                |
| Red              | C        | Alexa Fluor 647 | 23468        | 22962               | -3                        | 4.09                    | 604                     | 18.98                |
| Red              | B        | APC-Alexa 700   | 89750        | 90109               | 0                         | 9.08                    | 3098                    | 8.26                 |
| Red              | A        | APC-Cy7         | 81282        | 80812               | -1                        | 10.89                   | 2568                    | 14.01                |
| 561 Yellow-Green | E        | DsRed           | 101109       | 99765               | -2                        | 3.46                    | 2431                    | 8.28                 |
| 561 Yellow-Green | D        | PE-Texas Red    | 88403        | 87653               | -1                        | 3.73                    | 1988                    | 12.46                |
| 561 Yellow-Green | C        | 7-AAD           | 89531        | 88824               | -1                        | 4.87                    | 2789                    | 12.67                |
| 561 Yellow-Green | B        | PE-Cy5-5        | 77601        | 76650               | -2                        | 7.98                    | 2653                    | 10.74                |
| 561 Yellow-Green | A        | PE-Cy7          | 18307        | 17603               | -4                        | 12.24                   | 524                     | 13.66                |

## Detector Settings (Continued)

| Laser            | Detector | Parameter       | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | $\Delta$ PMTV | Qr      | Br   | P/F  |
|------------------|----------|-----------------|-------------------------|----------------------|------|---------------|---------|------|------|
| Blue             | FSC      | FSC             | 14941                   | 3.11                 | 369  | 25            | N/A     | N/A  | Pass |
| Blue             | C        | SSC             | 58883                   | 2.61                 | 364  | 5             | N/A     | N/A  | Pass |
| Blue             | B        | Alexa Fluor 488 | 131                     | 51.63                | 634  | 14            | 0.0239  | 0    | Pass |
| Blue             | A        | PerCP           | 117                     | 81.54                | 649  | 17            | 0.0032  | 392  | Pass |
| Red              | C        | Alexa Fluor 647 | 102                     | 48.41                | 566  | -3            | 0.0102  | 94   | Pass |
| Red              | B        | APC-Alexa 700   | 450                     | 20.64                | 605  | 3             | -0.0096 | 0    | Pass |
| Red              | A        | APC-Cy7         | 364                     | 36.64                | 661  | 5             | 0.0092  | 5187 | Pass |
| 561 Yellow-Green | E        | DsRed           | 556                     | 17.16                | 638  | -7            | 0.5317  | 0    | Pass |
| 561 Yellow-Green | D        | PE-Texas Red    | 422                     | 27.89                | 619  | -6            | 0.0403  | 0    | Pass |
| 561 Yellow-Green | C        | 7-AAD           | 449                     | 33.83                | 714  | -5            | 0.0438  | 67   | Pass |

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|                  |   |          |     |       |     |   |        |      |      |
|------------------|---|----------|-----|-------|-----|---|--------|------|------|
| 561 Yellow-Green | B | PE-Cy5-5 | 384 | 31.44 | 643 | 0 | 0.0822 | 1496 | Pass |
| 561 Yellow-Green | A | PE-Cy7   | 75  | 35.58 | 463 | 0 | 0.2641 | 2947 | 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              | -71.36                    | -70.81                             | 1.05                |
| 561 Yellow-Green | -37.14                    | -36.54                             | 1.01                |
| Blue             | 0.00                      | 0.00                               | 1.17                |

Window Extension: 2.00  
FSC Area Scaling Factor: 0.94

## Threshold

Threshold (FSC): 9775

## Fluidics

Sheath Pressure: 24.82      Sample Pressure: 23.77  
Nozzle Size: 100

Comments