

# 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: 07/08/2019 02:00 PM  
 Cytometer Baseline: 07/08/2019 01:54 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       | 124723              | -1                        | 1.96                    | 124829                  | 1.96                 |
| Blue             | C        | SSC             | 125000       | 124162              | -1                        | 2.80                    | 125314                  | 2.87                 |
| Blue             | B        | Alexa Fluor 488 | 24509        | 24540               | 0                         | 3.11                    | 608                     | 18.28                |
| Blue             | A        | PerCP           | 28083        | 28411               | 1                         | 5.53                    | 818                     | 24.55                |
| Red              | C        | Alexa Fluor 647 | 27476        | 27025               | -2                        | 3.50                    | 715                     | 18.40                |
| Red              | B        | APC-Alexa 700   | 71237        | 70766               | -1                        | 5.75                    | 2384                    | 8.28                 |
| Red              | A        | APC-Cy7         | 63557        | 63165               | -1                        | 7.21                    | 1955                    | 13.69                |
| 561 Yellow-Green | E        | DsRed           | 87567        | 87467               | -1                        | 2.46                    | 2160                    | 7.90                 |
| 561 Yellow-Green | D        | PE-Texas Red    | 65512        | 65421               | -1                        | 3.00                    | 1483                    | 12.53                |
| 561 Yellow-Green | C        | 7-AAD           | 69736        | 69502               | -1                        | 3.69                    | 2186                    | 12.51                |
| 561 Yellow-Green | B        | PE-Cy5-5        | 63787        | 63484               | -1                        | 5.66                    | 2177                    | 10.62                |
| 561 Yellow-Green | A        | PE-Cy7          | 18452        | 17515               | -6                        | 8.23                    | 509                     | 13.34                |

## Detector Settings (Continued)

| Laser            | Detector | Parameter       | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr     | Br   | P/F  |
|------------------|----------|-----------------|-------------------------|----------------------|------|--------|--------|------|------|
| Blue             | FSC      | FSC             | 17161                   | 4.01                 | 362  | -3     | N/A    | N/A  | Pass |
| Blue             | C        | SSC             | 59770                   | 2.60                 | 363  | 4      | N/A    | N/A  | Pass |
| Blue             | B        | Alexa Fluor 488 | 95                      | 60.40                | 608  | 0      | 0.0206 | 18   | Pass |
| Blue             | A        | PerCP           | 113                     | 74.89                | 646  | 1      | 0.0036 | 298  | Pass |
| Red              | C        | Alexa Fluor 647 | 120                     | 46.41                | 580  | -1     | 0.0106 | 63   | Pass |
| Red              | B        | APC-Alexa 700   | 345                     | 21.05                | 583  | 0      | 0.0227 | 5260 | Pass |
| Red              | A        | APC-Cy7         | 277                     | 37.34                | 638  | 0      | 0.0042 | 1103 | Pass |
| 561 Yellow-Green | E        | DsRed           | 494                     | 17.12                | 628  | 0      | 0.5294 | 0    | Pass |
| 561 Yellow-Green | D        | PE-Texas Red    | 312                     | 28.98                | 596  | 0      | 0.0388 | 17   | Pass |
| 561 Yellow-Green | C        | 7-AAD           | 351                     | 33.95                | 692  | 0      | 0.0416 | 55   | Pass |

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|                  |   |          |     |       |     |    |        |     |      |
|------------------|---|----------|-----|-------|-----|----|--------|-----|------|
| 561 Yellow-Green | B | PE-Cy5-5 | 313 | 31.29 | 624 | 0  | 0.0397 | 444 | Pass |
| 561 Yellow-Green | A | PE-Cy7   | 72  | 35.50 | 460 | -3 | 0.0401 | 150 | 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              | -71.09                    | -70.49                             | 1.04                |
| 561 Yellow-Green | -36.94                    | -36.36                             | 1.02                |
| Blue             | 0.00                      | 0.00                               | 1.17                |

Window Extension: 2.00  
FSC Area Scaling Factor: 0.96

## Threshold

Threshold (FSC): 10205

## Fluidics

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

Comments