

# 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: 01/11/2021 10:36 AM  
 Cytometer Baseline: 10/26/2020 10:09 AM  
 P/F: Pass

## Setup Beads

Bead Product: CST Setup Beads Part #: 910858  
 Lot ID: 70757 Expiration Date: 03/31/2022  
 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       | 124471              | -1                        | 1.49                    | 124393                  | 1.49                 |
| Blue             | C        | SSC             | 125000       | 124840              | -1                        | 5.25                    | 125196                  | 5.07                 |
| Blue             | B        | Alexa Fluor 488 | 27038        | 26992               | -1                        | 4.16                    | 620                     | 17.17                |
| Blue             | A        | PerCP           | 20137        | 20129               | -1                        | 5.65                    | 734                     | 22.33                |
| Red              | C        | Alexa Fluor 647 | 20177        | 19953               | -2                        | 3.84                    | 682                     | 17.12                |
| Red              | B        | APC-Alexa 700   | 53518        | 52856               | -2                        | 5.09                    | 2279                    | 8.52                 |
| Red              | A        | APC-Cy7         | 50002        | 49782               | -1                        | 6.61                    | 2024                    | 14.76                |
| 561 Yellow-Green | E        | DsRed           | 95457        | 94082               | -2                        | 3.35                    | 2412                    | 8.17                 |
| 561 Yellow-Green | D        | PE-Texas Red    | 82387        | 82269               | -1                        | 3.37                    | 1936                    | 12.49                |
| 561 Yellow-Green | C        | 7-AAD           | 61828        | 61251               | -1                        | 4.04                    | 2294                    | 12.98                |
| 561 Yellow-Green | B        | PE-Cy5-5        | 54739        | 53917               | -2                        | 5.28                    | 2326                    | 11.50                |
| 561 Yellow-Green | A        | PE-Cy7          | 10496        | 9862                | -7                        | 7.47                    | 376                     | 15.28                |

## Detector Settings (Continued)

| Laser            | Detector | Parameter       | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | $\Delta$ PMTV | Qr     | Br   | P/F  |
|------------------|----------|-----------------|-------------------------|----------------------|------|---------------|--------|------|------|
| Blue             | FSC      | FSC             | 20208                   | 4.09                 | 355  | -4            | N/A    | N/A  | Pass |
| Blue             | C        | SSC             | 60261                   | 5.40                 | 353  | 0             | N/A    | N/A  | Pass |
| Blue             | B        | Alexa Fluor 488 | 107                     | 52.05                | 595  | -6            | 0.0280 | 0    | Pass |
| Blue             | A        | PerCP           | 92                      | 73.21                | 621  | -3            | 0.0047 | 303  | Pass |
| Red              | C        | Alexa Fluor 647 | 107                     | 46.60                | 570  | -3            | 0.0120 | 136  | Pass |
| Red              | B        | APC-Alexa 700   | 349                     | 22.54                | 593  | -2            | 0.0175 | 2434 | Pass |
| Red              | A        | APC-Cy7         | 307                     | 39.40                | 653  | 3             | 0.0039 | 565  | Pass |
| 561 Yellow-Green | E        | DsRed           | 519                     | 17.74                | 639  | -1            | 0.5761 | 0    | Pass |
| 561 Yellow-Green | D        | PE-Texas Red    | 392                     | 28.99                | 622  | 1             | 0.0420 | 1    | Pass |
| 561 Yellow-Green | C        | 7-AAD           | 344                     | 38.42                | 704  | -1            | 0.0462 | 77   | Pass |

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|                          |                            |                     |                     |
|--------------------------|----------------------------|---------------------|---------------------|
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| Cytometer Name:          | FACSAriaII                 | Institution:        | N/A                 |
| Serial Number:           | 1                          | Software:           | BD FACSDiva 8.0.1   |
| Input Device:            | Manual                     | Date:               | 01/11/2021 10:36 AM |
| Cytometer Configuration: | 100 microns 25PSI standard | Cytometer Baseline: | 10/26/2020 10:09 AM |
|                          |                            | P/F:                | Pass                |

|                  |   |          |     |       |     |   |        |     |      |
|------------------|---|----------|-----|-------|-----|---|--------|-----|------|
| 561 Yellow-Green | B | PE-Cy5-5 | 351 | 34.40 | 649 | 0 | 0.0366 | 326 | Pass |
| 561 Yellow-Green | A | PE-Cy7   | 60  | 38.26 | 460 | 1 | 0.0293 | 22  | 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              | -75.28                    | -74.81                             | 1.02                |
| 561 Yellow-Green | -38.48                    | -38.12                             | 0.97                |
| Blue             | 0.00                      | 0.00                               | 1.14                |

|                          |      |
|--------------------------|------|
| Window Extension:        | 2.00 |
| FSC Area Scaling Factor: | 0.95 |

## Threshold

Threshold (FSC): 9968

## Fluidics

|                  |       |                  |       |
|------------------|-------|------------------|-------|
| Sheath Pressure: | 24.83 | Sample Pressure: | 23.71 |
| Nozzle Size:     | 100   |                  |       |

Comments