

# Cytometer Performance Report

|                          |                            |                     |                     |
|--------------------------|----------------------------|---------------------|---------------------|
| Cytometer:               | FACSAriaII                 | User:               | Administrator       |
| Cytometer Name:          | FACSAriaII                 | Institution:        | N/A                 |
| Serial Number:           | 1                          | Software:           | BD FACSDiva 8.0.1   |
| Input Device:            | Manual                     | Date:               | 02/08/2016 02:25 PM |
| Cytometer Configuration: | 100 microns 25PSI standard | Cytometer Baseline: | 10/19/2015 04:27 PM |
|                          |                            | P/F:                | Pass                |

## Setup Beads

**Bead Product:** CST Setup Beads    **Part #:** 910858  
**Lot ID:** 82950    **Expiration Date:** 03/31/2016  
**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       | 125118              | 0                         | 3.11                    | 125343                  | 3.07                 |
| Blue             | C        | SSC             | 125000       | 122269              | -3                        | 3.34                    | 123376                  | 3.37                 |
| Blue             | B        | Alexa Fluor 488 | 21893        | 21760               | -1                        | 3.48                    | 496                     | 18.16                |
| Blue             | A        | PerCP           | 28999        | 28798               | -1                        | 4.94                    | 568                     | 25.09                |
| Red              | C        | Alexa Fluor 647 | 24023        | 23922               | -1                        | 4.41                    | 461                     | 26.57                |
| Red              | B        | APC-Alexa 700   | 95610        | 95184               | -1                        | 3.45                    | 1626                    | 11.73                |
| Red              | A        | APC-Cy7         | 84656        | 84933               | 0                         | 4.24                    | 1278                    | 20.74                |
| 561 Yellow-Green | E        | DsRed           | 88087        | 87427               | -1                        | 2.18                    | 1989                    | 9.34                 |
| 561 Yellow-Green | D        | PE-Texas Red    | 79386        | 79135               | -1                        | 2.66                    | 1556                    | 15.70                |
| 561 Yellow-Green | C        | 7-AAD           | 82932        | 82786               | -1                        | 2.97                    | 1731                    | 16.82                |
| 561 Yellow-Green | B        | PE-Cy5-5        | 83720        | 82864               | -2                        | 3.01                    | 1589                    | 14.27                |
| 561 Yellow-Green | A        | PE-Cy7          | 22282        | 21463               | -4                        | 3.61                    | 318                     | 18.82                |

## Detector Settings (Continued)

| Laser            | Detector | Parameter       | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr     | Br  | P/F  |
|------------------|----------|-----------------|-------------------------|----------------------|------|--------|--------|-----|------|
| Blue             | FSC      | FSC             | 14396                   | 6.54                 | 329  | -5     | N/A    | N/A | Pass |
| Blue             | C        | SSC             | 66651                   | 4.35                 | 361  | 6      | N/A    | N/A | Pass |
| Blue             | B        | Alexa Fluor 488 | 96                      | 51.12                | 573  | 5      | 0.0221 | 0   | Pass |
| Blue             | A        | PerCP           | 112                     | 63.96                | 612  | -1     | 0.0046 | 327 | Pass |
| Red              | C        | Alexa Fluor 647 | 122                     | 53.13                | 596  | -5     | 0.0071 | 62  | Pass |
| Red              | B        | APC-Alexa 700   | 388                     | 23.41                | 620  | 2      | 0.0058 | 0   | Pass |
| Red              | A        | APC-Cy7         | 299                     | 45.03                | 677  | -1     | 0.0022 | 256 | Pass |
| 561 Yellow-Green | E        | DsRed           | 598                     | 17.13                | 654  | -4     | 0.3715 | 0   | Pass |
| 561 Yellow-Green | D        | PE-Texas Red    | 434                     | 31.00                | 649  | -5     | 0.0265 | 6   | Pass |
| 561 Yellow-Green | C        | 7-AAD           | 426                     | 36.04                | 718  | -6     | 0.0299 | 50  | Pass |

# Cytometer Performance Report

|                          |                            |                     |                     |
|--------------------------|----------------------------|---------------------|---------------------|
| Cytometer:               | FACSAriaII                 | User:               | Administrator       |
| Cytometer Name:          | FACSAriaII                 | Institution:        | N/A                 |
| Serial Number:           | 1                          | Software:           | BD FACSDiva 8.0.1   |
| Input Device:            | Manual                     | Date:               | 02/08/2016 02:25 PM |
| Cytometer Configuration: | 100 microns 25PSI standard | Cytometer Baseline: | 10/19/2015 04:27 PM |
|                          |                            | P/F:                | Pass                |

|                  |   |          |     |       |     |    |        |     |      |
|------------------|---|----------|-----|-------|-----|----|--------|-----|------|
| 561 Yellow-Green | B | PE-Cy5-5 | 372 | 33.03 | 654 | -4 | 0.0236 | 221 | Pass |
| 561 Yellow-Green | A | PE-Cy7   | 77  | 38.02 | 477 | -6 | 0.0195 | 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 (Trigger on FSC) | Delay (Trigger on Fluorescence) | Area Scaling Factor |
|------------------|------------------------|---------------------------------|---------------------|
| Red              | -73.11                 | -72.22                          | 1.02                |
| 561 Yellow-Green | -38.19                 | -37.37                          | 0.99                |
| Blue             | 0.00                   | 0.00                            | 1.11                |

|                          |      |
|--------------------------|------|
| Window Extension:        | 2.00 |
| FSC Area Scaling Factor: | 0.85 |

## Threshold

Threshold (FSC): 10398

## Fluidics

|                  |       |                  |       |
|------------------|-------|------------------|-------|
| Sheath Pressure: | 24.93 | Sample Pressure: | 23.92 |
| Nozzle Size:     | 100   |                  |       |

Comments