

# 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:               | 11/18/2019 11:16 AM |
| Cytometer Configuration: | 100 microns 25PSI standard | Cytometer Baseline: | 11/13/2019 09:43 AM |
|                          |                            | 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       | 124158              | -1                        | 2.28                    | 124223                  | 2.31                 |
| Blue             | C        | SSC             | 125000       | 123223              | -2                        | 3.49                    | 124285                  | 3.50                 |
| Blue             | B        | Alexa Fluor 488 | 25980        | 26113               | 0                         | 3.21                    | 649                     | 18.67                |
| Blue             | A        | PerCP           | 28221        | 28135               | -1                        | 6.51                    | 808                     | 25.37                |
| Red              | C        | Alexa Fluor 647 | 25052        | 24729               | -2                        | 3.50                    | 658                     | 18.65                |
| Red              | B        | APC-Alexa 700   | 71160        | 70572               | -1                        | 6.53                    | 2361                    | 8.26                 |
| Red              | A        | APC-Cy7         | 63856        | 63252               | -1                        | 8.51                    | 1946                    | 13.96                |
| 561 Yellow-Green | E        | DsRed           | 80340        | 80018               | -1                        | 1.75                    | 1963                    | 7.93                 |
| 561 Yellow-Green | D        | PE-Texas Red    | 59115        | 58956               | -1                        | 2.15                    | 1341                    | 12.62                |
| 561 Yellow-Green | C        | 7-AAD           | 65703        | 65126               | -1                        | 3.83                    | 2052                    | 12.40                |
| 561 Yellow-Green | B        | PE-Cy5-5        | 55719        | 54440               | -3                        | 6.91                    | 1846                    | 10.87                |
| 561 Yellow-Green | A        | PE-Cy7          | 18261        | 17408               | -5                        | 9.75                    | 500                     | 13.15                |

## Detector Settings (Continued)

| Laser            | Detector | Parameter       | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr     | Br    | P/F  |
|------------------|----------|-----------------|-------------------------|----------------------|------|--------|--------|-------|------|
| Blue             | FSC      | FSC             | 10378                   | 9.10                 | 421  | 2      | N/A    | N/A   | Pass |
| Blue             | C        | SSC             | 58804                   | 3.87                 | 370  | 0      | N/A    | N/A   | Pass |
| Blue             | B        | Alexa Fluor 488 | 102                     | 57.56                | 622  | -4     | 0.0188 | 0     | Pass |
| Blue             | A        | PerCP           | 113                     | 77.28                | 646  | -6     | 0.0034 | 320   | Pass |
| Red              | C        | Alexa Fluor 647 | 110                     | 47.11                | 577  | 1      | 0.0102 | 66    | Pass |
| Red              | B        | APC-Alexa 700   | 339                     | 21.24                | 585  | -3     | 0.0684 | 21662 | Pass |
| Red              | A        | APC-Cy7         | 273                     | 37.63                | 638  | -3     | 0.0049 | 1551  | Pass |
| 561 Yellow-Green | E        | DsRed           | 448                     | 17.70                | 625  | -2     | 0.5058 | 0     | Pass |
| 561 Yellow-Green | D        | PE-Texas Red    | 285                     | 28.81                | 591  | -2     | 0.0367 | 0     | Pass |
| 561 Yellow-Green | C        | 7-AAD           | 332                     | 33.35                | 687  | -5     | 0.0426 | 53    | Pass |

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|                  |   |          |     |       |     |    |        |     |      |
|------------------|---|----------|-----|-------|-----|----|--------|-----|------|
| 561 Yellow-Green | B | PE-Cy5-5 | 269 | 30.54 | 610 | -8 | 0.0485 | 572 | Pass |
| 561 Yellow-Green | A | PE-Cy7   | 72  | 35.01 | 458 | -8 | 0.0649 | 424 | 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              | -72.19                 | -71.69                          | 1.04                |
| 561 Yellow-Green | -37.49                 | -37.02                          | 1.01                |
| Blue             | 0.00                   | 0.00                            | 1.20                |

|                          |      |
|--------------------------|------|
| Window Extension:        | 2.00 |
| FSC Area Scaling Factor: | 1.06 |

## Threshold

Threshold (FSC): 9608

## Fluidics

|                  |       |                  |       |
|------------------|-------|------------------|-------|
| Sheath Pressure: | 24.79 | Sample Pressure: | 23.77 |
| Nozzle Size:     | 100   |                  |       |

Comments