

# 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:	01/16/2017 11:20 AM
Cytometer Configuration:	100 microns 25PSI standard	Cytometer Baseline:	01/09/2017 04:23 PM
		P/F:	Pass

## Setup Beads

**Bead Product:** CST Setup Beads    **Part #:** 910858  
**Lot ID:** 77840    **Expiration Date:** 04/30/2017  
**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	124779	-1	1.93	124944	1.88
Blue	C	SSC	125000	123824	-1	3.67	125064	3.71
Blue	B	Alexa Fluor 488	23962	23446	-3	3.18	549	16.27
Blue	A	PerCP	34222	33694	-2	5.32	962	21.56
Red	C	Alexa Fluor 647	24800	24437	-2	9.88 (1)	664	24.22
Red	B	APC-Alexa 700	74528	72993	-3	11.65	2250	13.42
Red	A	APC-Cy7	63165	63017	-1	12.34	1844	20.70
561 Yellow-Green	E	DsRed	85280	84378	-2	9.13 (2)	2099	12.26
561 Yellow-Green	D	PE-Texas Red	68751	67064	-3	9.16	1571	16.38
561 Yellow-Green	C	7-AAD	76126	75044	-2	8.99	2212	19.41
561 Yellow-Green	B	PE-Cy5-5	62502	60379	-4	10.28	1903	15.00
561 Yellow-Green	A	PE-Cy7	21080	19793	-7	10.96	545	18.87

## Detector Settings (Continued)

Laser	Detector	Parameter	Dim Bead Median Channel	Dim Bead % Robust CV	PMTV	Δ PMTV	Qr	Br	P/F
Blue	FSC	FSC	16465	4.02	334	-1	N/A	N/A	Pass
Blue	C	SSC	64098	3.39	361	2	N/A	N/A	Pass
Blue	B	Alexa Fluor 488	91	51.89	580	-3	0.0274	0	Pass
Blue	A	PerCP	150	60.65	639	-2	0.0043	300	Pass
Red	C	Alexa Fluor 647	121	55.60	609	-1	0.0067	79	Pass
Red	B	APC-Alexa 700	480	23.15	635	7	0.0185	12356	Pass
Red	A	APC-Cy7	398	41.87	697	12	0.0020	1150	Pass
561 Yellow-Green	E	DsRed	442	22.60	664	-1	0.4391	13	Pass
561 Yellow-Green	D	PE-Texas Red	310	35.53	638	-3	0.0307	66	Pass
561 Yellow-Green	C	7-AAD	406	46.65	773	-4	0.0206	100	Pass

# Cytometer Performance Report

<b>Cytometer:</b> FACSriaII <b>Cytometer Name:</b> FACSriaII <b>Serial Number:</b> 1 <b>Input Device:</b> Manual <b>Cytometer Configuration:</b> 100 microns 25PSI standard	<b>User:</b> Administrator <b>Institution:</b> N/A <b>Software:</b> BD FACSDiva 8.0.1 <b>Date:</b> 01/16/2017 11:20 AM <b>Cytometer Baseline:</b> 01/09/2017 04:23 PM <b>P/F:</b> Pass
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561 Yellow-Green	B	PE-Cy5-5	372	33.21	662	-1	0.0280	666	Pass
561 Yellow-Green	A	PE-Cy7	120	35.53	503	2	0.0178	2	Pass

- (1) Bright Bead %Robust CV for Primary Channel, Detector C, for Red Laser is greater than recommended value.  
 (2) Bright Bead %Robust CV for Primary Channel, Detector E, for 561 Yellow-Green Laser is greater than recommended value.

## 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	-73.56	-72.58	1.01
561 Yellow-Green	-38.43	-37.50	0.99
Blue	0.00	0.00	1.14

Window Extension: 2.00  
 FSC Area Scaling Factor: 0.87

## Threshold

Threshold (FSC): 10196

## Fluidics

Sheath Pressure: 24.78      Sample Pressure: 23.84  
 Nozzle Size: 100

Comments