

# 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:	11/28/2016 10:44 AM
Cytometer Configuration:	100 microns 25PSI standard	Cytometer Baseline:	07/05/2016 09:47 AM
		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	124542	-1	2.87	124736	2.80
Blue	C	SSC	125000	125066	0	3.74	126474	3.78
Blue	B	Alexa Fluor 488	24248	24014	-1	3.60	568	16.44
Blue	A	PerCP	33887	33716	-1	4.94	900	22.04
Red	C	Alexa Fluor 647	25051	24677	-2	4.21	670	21.63
Red	B	APC-Alexa 700	81413	80350	-2	2.90	2163	9.77
Red	A	APC-Cy7	71355	70597	-2	3.77	1721	17.19
561 Yellow-Green	E	DsRed	88389	87102	-2	2.59	2260	8.83
561 Yellow-Green	D	PE-Texas Red	74661	74269	-1	3.17	1770	14.01
561 Yellow-Green	C	7-AAD	84478	83674	-1	3.25	2411	14.49
561 Yellow-Green	B	PE-Cy5-5	76749	75901	-2	3.26	2169	12.45
561 Yellow-Green	A	PE-Cy7	18983	18046	-5	3.76	418	15.77

## Detector Settings (Continued)

Laser	Detector	Parameter	Dim Bead Median Channel	Dim Bead % Robust CV	PMTV	Δ PMTV	Qr	Br	P/F
Blue	FSC	FSC	16924	6.17	336	1	N/A	N/A	Pass
Blue	C	SSC	65235	3.70	364	5	N/A	N/A	Pass
Blue	B	Alexa Fluor 488	96	51.12	587	3	0.0267	0	Pass
Blue	A	PerCP	139	62.36	638	4	0.0044	269	Pass
Red	C	Alexa Fluor 647	126	52.61	599	-4	0.0074	107	Pass
Red	B	APC-Alexa 700	457	20.80	621	-1	0.0061	0	Pass
Red	A	APC-Cy7	368	38.91	676	-1	0.0023	360	Pass
561 Yellow-Green	E	DsRed	492	19.35	662	1	0.3742	0	Pass
561 Yellow-Green	D	PE-Texas Red	356	32.12	642	-3	0.0287	0	Pass
561 Yellow-Green	C	7-AAD	450	36.17	738	1	0.0309	60	Pass

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561 Yellow-Green	B	PE-Cy5-5	420	30.70	665	2	0.0225	181	Pass
561 Yellow-Green	A	PE-Cy7	90	34.21	477	-4	0.0214	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	-73.09	-72.15	1.02
561 Yellow-Green	-38.10	-37.21	0.99
Blue	0.00	0.00	1.11

Window Extension:	2.00
FSC Area Scaling Factor:	0.84

## Threshold

Threshold (FSC): 9661

## Fluidics

Sheath Pressure:	24.83	Sample Pressure:	23.84
Nozzle Size:	100		

Comments