

# 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:	08/19/2019 11:33 AM
Cytometer Configuration:	100 microns 25PSI standard	Cytometer Baseline:	07/08/2019 01:54 PM
		P/F:	Pass

## Setup Beads

**Bead Product:** CST Setup Beads    **Part #:** 910858  
**Lot ID:** 72518    **Expiration Date:** 09/30/2019  
**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	123958	-1	2.27	124075	2.21
Blue	C	SSC	125000	122317	-3	3.91	123446	3.93
Blue	B	Alexa Fluor 488	24509	24096	-2	3.55	600	17.01
Blue	A	PerCP	28083	27724	-2	5.42	796	23.07
Red	C	Alexa Fluor 647	27476	27123	-2	5.14	719	19.49
Red	B	APC-Alexa 700	71237	69525	-3	5.94	2347	9.09
Red	A	APC-Cy7	63557	62390	-2	6.54	1945	14.34
561 Yellow-Green	E	DsRed	87567	86695	-1	1.81	2151	7.64
561 Yellow-Green	D	PE-Texas Red	65512	64748	-2	2.25	1482	12.39
561 Yellow-Green	C	7-AAD	69736	69198	-1	2.61	2181	12.25
561 Yellow-Green	B	PE-Cy5-5	63787	63425	-1	3.15	2169	10.26
561 Yellow-Green	A	PE-Cy7	18452	17576	-5	4.33	513	13.37

## Detector Settings (Continued)

Laser	Detector	Parameter	Dim Bead Median Channel	Dim Bead % Robust CV	PMTV	Δ PMTV	Qr	Br	P/F
Blue	FSC	FSC	16887	3.99	345	-20	N/A	N/A	Pass
Blue	C	SSC	56750	3.97	354	-5	N/A	N/A	Pass
Blue	B	Alexa Fluor 488	91	55.60	592	-16	0.0238	0	Pass
Blue	A	PerCP	109	70.64	630	-15	0.0041	295	Pass
Red	C	Alexa Fluor 647	118	47.70	581	0	0.0096	24	Pass
Red	B	APC-Alexa 700	337	21.70	582	-1	0.0126	1625	Pass
Red	A	APC-Cy7	273	37.90	638	0	0.0033	371	Pass
561 Yellow-Green	E	DsRed	493	16.64	626	-2	0.5369	0	Pass
561 Yellow-Green	D	PE-Texas Red	314	28.04	595	-1	0.0376	0	Pass
561 Yellow-Green	C	7-AAD	353	33.37	691	-1	0.0411	45	Pass

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561 Yellow-Green	B	PE-Cy5-5	315	30.79	623	-1	0.0315	240	Pass
561 Yellow-Green	A	PE-Cy7	73	34.53	460	-3	0.0252	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	-71.92	-70.98	1.03
561 Yellow-Green	-37.40	-36.49	1.01
Blue	0.00	0.00	1.15

Window Extension:	2.00
FSC Area Scaling Factor:	0.94

## Threshold

Threshold (FSC): 12350

## Fluidics

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

Comments