

# 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:	10/02/2017 11:33 AM
Cytometer Configuration:	100 microns 25PSI standard	Cytometer Baseline:	08/07/2017 11:48 AM
		P/F:	Pass

## Setup Beads

**Bead Product:** CST Setup Beads    **Part #:** 910858  
**Lot ID:** 70106    **Expiration Date:** 01/31/2018  
**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	124959	-1	2.21	125103	2.16
Blue	C	SSC	125000	124152	-1	2.59	125315	2.54
Blue	B	Alexa Fluor 488	27891	27678	-1	2.62	756	15.28
Blue	A	PerCP	36335	36159	-1	6.92	826	22.78
Red	C	Alexa Fluor 647	31178	31119	-1	4.46	833	19.95
Red	B	APC-Alexa 700	151187	151889	0	5.46	3326	9.59
Red	A	APC-Cy7	132410	132148	-1	6.78	2559	17.97
561 Yellow-Green	E	DsRed	89854	89410	-1	2.85	2637	8.32
561 Yellow-Green	D	PE-Texas Red	78195	78262	0	3.27	2115	13.57
561 Yellow-Green	C	7-AAD	107664	106321	-2	3.90	2821	13.60
561 Yellow-Green	B	PE-Cy5-5	127783	126151	-2	5.70	2961	14.86
561 Yellow-Green	A	PE-Cy7	37041	35818	-4	8.32	642	16.62

## Detector Settings (Continued)

Laser	Detector	Parameter	Dim Bead Median Channel	Dim Bead % Robust CV	PMTV	Δ PMTV	Qr	Br	P/F
Blue	FSC	FSC	14237	6.11	347	2	N/A	N/A	Pass
Blue	C	SSC	63389	2.05	365	5	N/A	N/A	Pass
Blue	B	Alexa Fluor 488	112	48.44	605	-2	0.0259	0	Pass
Blue	A	PerCP	122	64.70	635	4	0.0040	288	Pass
Red	C	Alexa Fluor 647	155	48.14	606	0	0.0077	107	Pass
Red	B	APC-Alexa 700	569	21.29	653	1	0.0071	1097	Pass
Red	A	APC-Cy7	430	42.81	715	12	0.0017	190	Pass
561 Yellow-Green	E	DsRed	525	19.22	667	-4	0.4374	0	Pass
561 Yellow-Green	D	PE-Texas Red	384	33.41	654	0	0.0294	17	Pass
561 Yellow-Green	C	7-AAD	463	35.51	743	-8	0.0293	39	Pass

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561 Yellow-Green	B	PE-Cy5-5	479	40.30	740	47	0.0141	283	Pass
561 Yellow-Green	A	PE-Cy7	108	38.39	501	-3	0.0188	43	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	-74.94	-73.97	1.01
561 Yellow-Green	-39.05	-38.20	0.97
Blue	0.00	0.00	1.11

Window Extension:	2.00
FSC Area Scaling Factor:	0.86

## Threshold

Threshold (FSC): 9694

## Fluidics

Sheath Pressure:	24.79	Sample Pressure:	23.73
Nozzle Size:	100		

Comments