

# Cytometer Performance Report

Cytometer:	FACSAriaII	User:	Administrator
Cytometer Name:	FACSAriaIIIu	Institution:	N/A
Serial Number:	1	Software:	BD FACSDiva 8.0.1
Input Device:	Manual	Date:	11/30/2015 02:22 PM
Cytometer Configuration:	100 microns 25PSI standard	Cytometer Baseline:	10/19/2015 04:27 PM
		P/F:	Pass

## Setup Beads

**Bead Product:** CST Setup Beads    **Part #:** 910858  
**Lot ID:** 82950    **Expiration Date:** 03/31/2016  
**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	125353	0	2.55	125559	2.58
Blue	C	SSC	125000	123166	-2	3.58	124334	3.66
Blue	B	Alexa Fluor 488	21893	21416	-3	3.59	489	17.30
Blue	A	PerCP	28999	28912	-1	4.97	561	24.69
Red	C	Alexa Fluor 647	24023	23828	-1	4.08	465	25.15
Red	B	APC-Alexa 700	95610	95354	-1	2.62	1663	11.11
Red	A	APC-Cy7	84656	84346	-1	3.33	1283	20.03
561 Yellow-Green	E	DsRed	88087	87836	-1	3.02	1950	9.59
561 Yellow-Green	D	PE-Texas Red	79386	79193	-1	3.57	1553	16.08
561 Yellow-Green	C	7-AAD	82932	82300	-1	3.53	1727	16.78
561 Yellow-Green	B	PE-Cy5-5	83720	83589	-1	3.46	1609	16.17
561 Yellow-Green	A	PE-Cy7	22282	21767	-3	3.70	321	18.42

## Detector Settings (Continued)

Laser	Detector	Parameter	Dim Bead Median Channel	Dim Bead % Robust CV	PMTV	Δ PMTV	Qr	Br	P/F
Blue	FSC	FSC	12223	2.60	332	-2	N/A	N/A	Pass
Blue	C	SSC	64790	2.94	359	4	N/A	N/A	Pass
Blue	B	Alexa Fluor 488	94	47.65	568	0	0.0240	0	Pass
Blue	A	PerCP	110	61.40	612	-1	0.0047	244	Pass
Red	C	Alexa Fluor 647	123	51.08	596	-5	0.0080	93	Pass
Red	B	APC-Alexa 700	405	22.05	610	-8	0.0061	0	Pass
Red	A	APC-Cy7	305	42.86	674	-4	0.0023	148	Pass
561 Yellow-Green	E	DsRed	579	17.35	654	-4	0.3789	0	Pass
561 Yellow-Green	D	PE-Texas Red	434	31.28	661	7	0.0258	0	Pass
561 Yellow-Green	C	7-AAD	421	36.10	713	-11	0.0305	55	Pass

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561 Yellow-Green	B	PE-Cy5-5	378	36.28	674	16	0.0177	163	Pass
561 Yellow-Green	A	PE-Cy7	76	36.58	478	-5	0.0203	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	-72.17	-71.35	1.04
561 Yellow-Green	-37.74	-36.94	1.00
Blue	0.00	0.00	1.12

Window Extension:	2.00
FSC Area Scaling Factor:	0.87

## Threshold

Threshold (FSC): 9813

## Fluidics

Sheath Pressure:	24.80	Sample Pressure:	23.77
Nozzle Size:	100		

Comments