

# Cytometer Performance Report

Cytometer:	FACSCantoII	User:	Administrator
Cytometer Name:	FACSCantoII	Institution:	N/A
Serial Number:	V96300958	Software:	BD FACSDiva 9.0
Input Device:	Carousel	Date:	03/18/2024 09:33 AM
Tube Loaded Manually:	Yes	Cytometer Baseline:	12/07/2023 11:15 AM
Cytometer Configuration:	Canto II Config 3-laser, 8-color (4-2-2)	P/F:	Pass

## Setup Beads

**Bead Product:** CST Setup Beads    **Part #:** 910858  
**Lot ID:** 82158    **Expiration Date:** 08/31/2020 (Expired)  
**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	123597	-2	1.01	123795	1.00
Blue	F	SSC	125000	122855	-2	2.16	123473	2.15
Blue	E	FITC	20274	19725	-3	2.56	416	18.86
Blue	D	PE	33957	32763	-4	1.91	692	12.62
Blue	B	PE-Cy5	48011	47111	-2	3.50	1355	18.53
Blue	A	PE-Cy7	35963	34973	-3	4.83	777	27.80
Red	C	APC	55970	55529	-1	2.50	1801	13.19
Red	A	APC-Cy7	43527	43221	-1	2.67	1281	11.78
Violet	B	DAPI	12286	11894	-4	2.23	844	11.06
Violet	A	AmCyan	41615	40249	-4	1.78	989	11.25

## Detector Settings (Continued)

Laser	Detector	Parameter	Dim Bead Median Channel	Dim Bead % Robust CV	PMTV	Δ PMTV	Qr	Br	P/F
Blue	FSC	FSC	17888	2.63	538	-3	N/A	N/A	Pass
Blue	F	SSC	56945	1.77	387	1	N/A	N/A	Pass
Blue	E	FITC	75	66.86	444	-1	0.0256	304	Pass
Blue	D	PE	141	46.33	475	-1	0.2859	392	Pass
Blue	B	PE-Cy5	254	46.28	610	-2	0.0109	107	Pass
Blue	A	PE-Cy7	154	64.95	625	-3	0.0208	6	Pass
Red	C	APC	403	28.06	674	2	0.0226	73	Pass
Red	A	APC-Cy7	272	28.40	526	-2	0.0052	973	Pass
Violet	B	DAPI	115	57.74	446	-4	0.0552	2750	Pass
Violet	A	AmCyan	145	55.60	503	-2	0.0266	6187	Pass

## Specifications

**PMTV Delta from baseline:** 50 (BD)  
**Violet Laser Primary Channel Bright Bead %Robust CV:** 6.00 (Recommended)  
**Blue Laser Primary Channel Bright Bead %Robust CV:** 6.00 (Recommended)  
**Red Laser Primary Channel Bright Bead %Robust CV:** 6.00 (Recommended)

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## Laser Settings

Laser	Power (mW)	Power Spec. (mW)	Current (mA)	Current Guidelines (mA)	Delay (Trigger on FSC)	Delay (Trigger on Fluorescence)	Area Scaling Factor
Violet	59.80	47.84 - 71.76	N/A	N/A	-29.14	-28.89	1.21
Blue	20.24	16.19 - 24.29	1.41	1.14 - 1.70	0.00	0.00	1.47
Red	18.26	14.40 - 21.60	N/A	N/A	28.79	28.91	1.27

Window Extension: 7.00  
FSC Area Scaling Factor: 0.86

## Threshold

Threshold (FSC): 9691

## Fluidics

FACSFlow Pressure: 4.50      Sample Pressure: 4.40  
Spec.: 4.40 - 4.60

Comments