

# 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:	11/02/2022 09:31 AM
Tube Loaded Manually:	Yes	Cytometer Baseline:	01/10/2022 09:13 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	124307	-1	3.52	124380	3.46
Blue	F	SSC	125000	123380	-2	1.61	123938	1.60
Blue	E	FITC	20683	19833	-5	2.89	416	22.32
Blue	D	PE	34454	33783	-2	1.92	717	15.13
Blue	B	PE-Cy5	48076	46827	-3	4.33	1362	22.43
Blue	A	PE-Cy7	34574	34048	-2	6.13	738	34.21
Red	C	APC	54895	54794	-1	3.23	1777	14.04
Red	A	APC-Cy7	41657	41351	-1	3.02	1243	12.60
Violet	B	DAPI	11284	10436	-8	5.57	675	14.21
Violet	A	AmCyan	44139	42489	-4	5.45	1043	15.04

## Detector Settings (Continued)

Laser	Detector	Parameter	Dim Bead Median Channel	Dim Bead % Robust CV	PMTV	Δ PMTV	Qr	Br	P/F
Blue	FSC	FSC	16860	20.65	582	17	N/A	N/A	Pass
Blue	F	SSC	56853	1.45	409	11	N/A	N/A	Pass
Blue	E	FITC	76	81.40	471	12	0.0193	509	Pass
Blue	D	PE	146	52.95	503	13	0.1609	292	Pass
Blue	B	PE-Cy5	245	57.86	645	16	0.0073	124	Pass
Blue	A	PE-Cy7	137	85.41	656	12	0.0142	19	Pass
Red	C	APC	398	30.14	684	13	0.0202	99	Pass
Red	A	APC-Cy7	262	30.98	533	8	0.0046	1270	Pass
Violet	B	DAPI	92	80.70	463	14	0.0738	7093	Pass
Violet	A	AmCyan	149	74.71	527	20	0.0172	7257	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	-30.06	-29.66	1.18
Blue	20.22	16.19 - 24.29	1.43	1.14 - 1.70	0.00	0.00	1.49
Red	16.19	12.72 - 19.08	N/A	N/A	27.84	28.18	1.31

Window Extension: 7.00  
FSC Area Scaling Factor: 0.87

## Threshold

Threshold (FSC): 9590

## Fluidics

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

Comments