

# 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:	03/20/2023 09:47 AM
Tube Loaded Manually:	Yes	Cytometer Baseline:	01/16/2023 10:20 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	128901	3	2.11	129056	2.13
Blue	F	SSC	125000	127956	2	1.38	128536	1.39
Blue	E	FITC	20434	20047	-2	2.38	425	20.36
Blue	D	PE	34399	33966	-2	1.54	721	12.92
Blue	B	PE-Cy5	48387	48178	-1	3.64	1392	19.61
Blue	A	PE-Cy7	34835	34364	-2	5.68	759	29.54
Red	C	APC	54234	54894	1	2.42	1788	12.83
Red	A	APC-Cy7	42473	42983	1	3.12	1297	11.79
Violet	B	DAPI	10884	10566	-3	1.95	677	11.39
Violet	A	AmCyan	41787	41012	-2	1.56	1006	11.33

## Detector Settings (Continued)

Laser	Detector	Parameter	Dim Bead Median Channel	Dim Bead % Robust CV	PMTV	Δ PMTV	Qr	Br	P/F
Blue	FSC	FSC	17193	11.94	554	-11	N/A	N/A	Pass
Blue	F	SSC	59224	0.96	393	-5	N/A	N/A	Pass
Blue	E	FITC	77	74.13	452	-7	0.0230	472	Pass
Blue	D	PE	148	46.42	483	-7	0.2498	351	Pass
Blue	B	PE-Cy5	257	49.99	623	-7	0.0097	129	Pass
Blue	A	PE-Cy7	143	74.13	635	-8	0.0191	25	Pass
Red	C	APC	400	27.51	672	5	0.0241	95	Pass
Red	A	APC-Cy7	274	28.56	528	4	0.0053	1179	Pass
Violet	B	DAPI	93	67.88	444	1	0.1058	6928	Pass
Violet	A	AmCyan	144	56.76	504	2	0.0254	5886	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	-30.29	-30.02	1.13
Blue	20.24	16.19 - 24.29	1.43	1.14 - 1.70	0.00	0.00	1.50
Red	17.61	14.40 - 21.60	N/A	N/A	28.00	28.19	1.26

Window Extension: 7.00  
FSC Area Scaling Factor: 0.88

## Threshold

Threshold (FSC): 9520

## Fluidics

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

Comments