

# 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:	11/13/2023 09:20 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	125462	0	0.84	125589	0.82
Blue	F	SSC	125000	124581	-1	1.70	125193	1.68
Blue	E	FITC	20434	19893	-3	2.35	419	18.13
Blue	D	PE	34399	34175	-1	1.55	726	12.61
Blue	B	PE-Cy5	48387	47622	-2	3.41	1373	18.55
Blue	A	PE-Cy7	34835	33736	-4	5.40	741	28.93
Red	C	APC	54234	54098	-1	2.52	1760	12.92
Red	A	APC-Cy7	42473	42021	-2	2.61	1260	11.73
Violet	B	DAPI	10884	10608	-3	2.07	698	10.34
Violet	A	AmCyan	41787	41608	-1	1.75	1023	9.63

## Detector Settings (Continued)

Laser	Detector	Parameter	Dim Bead Median Channel	Dim Bead % Robust CV	PMTV	Δ PMTV	Qr	Br	P/F
Blue	FSC	FSC	20679	2.90	550	-15	N/A	N/A	Pass
Blue	F	SSC	57726	1.33	391	-7	N/A	N/A	Pass
Blue	E	FITC	76	61.05	448	-11	0.0264	174	Pass
Blue	D	PE	149	44.93	479	-11	0.2583	332	Pass
Blue	B	PE-Cy5	253	46.77	615	-15	0.0108	101	Pass
Blue	A	PE-Cy7	144	67.95	626	-17	0.0194	5	Pass
Red	C	APC	392	28.01	669	2	0.0240	115	Pass
Red	A	APC-Cy7	267	29.08	524	0	0.0053	1380	Pass
Violet	B	DAPI	96	56.74	439	-4	0.0884	3785	Pass
Violet	A	AmCyan	148	39.14	503	1	0.0263	2159	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	-30.28	-30.04	1.19
Blue	20.24	16.19 - 24.29	1.43	1.14 - 1.70	0.00	0.00	1.51
Red	15.51	14.40 - 21.60	N/A	N/A	27.92	28.24	1.28

Window Extension: 7.00  
FSC Area Scaling Factor: 0.89

## Threshold

Threshold (FSC): 12990

## Fluidics

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

Comments