

# 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:	06/19/2023 09:23 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	124304	-1	2.23	124546	2.23
Blue	F	SSC	125000	124275	-1	2.21	124896	2.24
Blue	E	FITC	20434	19841	-3	2.63	419	20.72
Blue	D	PE	34399	34204	-1	1.84	728	13.76
Blue	B	PE-Cy5	48387	47448	-2	3.74	1372	20.11
Blue	A	PE-Cy7	34835	34366	-2	5.14	767	29.30
Red	C	APC	54234	53668	-2	3.33	1739	12.91
Red	A	APC-Cy7	42473	41393	-3	3.31	1240	11.40
Violet	B	DAPI	10884	10411	-5	2.95	744	11.26
Violet	A	AmCyan	41787	40648	-3	2.61	998	12.25

## Detector Settings (Continued)

Laser	Detector	Parameter	Dim Bead Median Channel	Dim Bead % Robust CV	PMTV	Δ PMTV	Qr	Br	P/F
Blue	FSC	FSC	13911	15.84	563	-2	N/A	N/A	Pass
Blue	F	SSC	57753	1.48	396	-2	N/A	N/A	Pass
Blue	E	FITC	76	72.68	454	-5	0.0210	352	Pass
Blue	D	PE	148	47.92	486	-4	0.1974	282	Pass
Blue	B	PE-Cy5	255	52.33	623	-7	0.0094	174	Pass
Blue	A	PE-Cy7	148	71.88	633	-10	0.0190	21	Pass
Red	C	APC	393	27.35	662	-5	0.0249	110	Pass
Red	A	APC-Cy7	264	27.09	517	-7	0.0058	983	Pass
Violet	B	DAPI	102	61.35	442	-1	0.0682	4268	Pass
Violet	A	AmCyan	148	56.48	506	4	0.0198	4682	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	-30.05	-29.63	1.18
Blue	20.24	16.19 - 24.29	1.42	1.14 - 1.70	0.00	0.00	1.50
Red	16.20	14.40 - 21.60	N/A	N/A	27.25	27.74	1.27

Window Extension: 7.00  
FSC Area Scaling Factor: 0.90

## Threshold

Threshold (FSC): 9930

## Fluidics

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

Comments