

# 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:	01/22/2024 09:20 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	124414	-1	2.11	124546	2.12
Blue	F	SSC	125000	123106	-2	3.67	123598	3.72
Blue	E	FITC	20274	19672	-3	3.35	412	19.34
Blue	D	PE	33957	32907	-4	2.92	694	12.75
Blue	B	PE-Cy5	48011	47234	-2	3.96	1361	19.02
Blue	A	PE-Cy7	35963	35493	-2	4.96	780	27.78
Red	C	APC	55970	55927	-1	2.50	1814	12.67
Red	A	APC-Cy7	43527	43251	-1	2.62	1283	11.84
Violet	B	DAPI	12286	11899	-4	2.22	812	11.00
Violet	A	AmCyan	41615	41084	-2	1.92	1002	12.30

## Detector Settings (Continued)

Laser	Detector	Parameter	Dim Bead Median Channel	Dim Bead % Robust CV	PMTV	Δ PMTV	Qr	Br	P/F
Blue	FSC	FSC	18123	3.84	537	-4	N/A	N/A	Pass
Blue	F	SSC	57163	3.40	389	3	N/A	N/A	Pass
Blue	E	FITC	76	66.86	443	-2	0.0249	310	Pass
Blue	D	PE	143	44.79	474	-2	0.2718	338	Pass
Blue	B	PE-Cy5	253	47.09	610	-2	0.0104	90	Pass
Blue	A	PE-Cy7	152	66.86	625	-3	0.0213	13	Pass
Red	C	APC	401	28.89	673	1	0.0261	227	Pass
Red	A	APC-Cy7	270	29.51	525	-3	0.0053	1357	Pass
Violet	B	DAPI	112	60.58	449	-1	0.0731	4028	Pass
Violet	A	AmCyan	147	59.55	507	2	0.0205	5330	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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P/F: Pass

## 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	59.78	47.84 - 71.76	N/A	N/A	-28.65	-28.46	1.21
Blue	20.25	16.19 - 24.29	1.45	1.14 - 1.70	0.00	0.00	1.49
Red	17.13	14.40 - 21.60	N/A	N/A	28.20	28.56	1.28

Window Extension: 7.00  
FSC Area Scaling Factor: 0.87

## Threshold

Threshold (FSC): 12075

## Fluidics

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

Comments