

# 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:	01/04/2024 09:14 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	125714	0	0.88	125887	0.89
Blue	F	SSC	125000	124488	-1	2.76	125178	2.75
Blue	E	FITC	20274	19678	-3	2.50	416	17.69
Blue	D	PE	33957	33006	-3	1.89	701	11.74
Blue	B	PE-Cy5	48011	47050	-3	3.32	1356	17.73
Blue	A	PE-Cy7	35963	35460	-2	4.62	781	26.88
Red	C	APC	55970	56400	0	2.42	1830	12.61
Red	A	APC-Cy7	43527	43225	-1	2.70	1275	11.62
Violet	B	DAPI	12286	11938	-3	2.16	799	10.51
Violet	A	AmCyan	41615	40957	-2	1.87	1007	10.30

## Detector Settings (Continued)

Laser	Detector	Parameter	Dim Bead Median Channel	Dim Bead % Robust CV	PMTV	Δ PMTV	Qr	Br	P/F
Blue	FSC	FSC	20310	2.95	532	-9	N/A	N/A	Pass
Blue	F	SSC	57962	2.54	385	-1	N/A	N/A	Pass
Blue	E	FITC	77	61.54	440	-5	0.0297	283	Pass
Blue	D	PE	144	43.43	470	-6	0.3627	452	Pass
Blue	B	PE-Cy5	252	43.71	605	-7	0.0118	72	Pass
Blue	A	PE-Cy7	154	62.94	620	-8	0.0224	5	Pass
Red	C	APC	406	28.64	671	-1	0.0262	222	Pass
Red	A	APC-Cy7	267	28.81	524	-4	0.0055	1221	Pass
Violet	B	DAPI	110	58.01	445	-5	0.0880	4268	Pass
Violet	A	AmCyan	147	46.18	501	-4	0.0265	3701	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	-29.39	-29.25	1.21
Blue	20.25	16.19 - 24.29	1.43	1.14 - 1.70	0.00	0.00	1.46
Red	15.92	14.40 - 21.60	N/A	N/A	29.01	29.24	1.27

Window Extension: 7.00  
FSC Area Scaling Factor: 0.86

## Threshold

Threshold (FSC): 9785

## Fluidics

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

Comments