

# 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:	09/18/2023 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	124734	-1	1.83	124880	1.80
Blue	F	SSC	125000	124548	-1	1.97	125096	1.92
Blue	E	FITC	20434	20139	-2	2.45	421	19.20
Blue	D	PE	34399	34382	-1	1.68	729	13.56
Blue	B	PE-Cy5	48387	47604	-2	3.50	1371	19.52
Blue	A	PE-Cy7	34835	34340	-2	5.02	748	29.17
Red	C	APC	54234	54519	0	2.57	1766	13.51
Red	A	APC-Cy7	42473	42388	-1	2.52	1239	12.03
Violet	B	DAPI	10884	10399	-5	3.03	703	10.89
Violet	A	AmCyan	41787	40352	-4	2.79	988	10.61

## Detector Settings (Continued)

Laser	Detector	Parameter	Dim Bead Median Channel	Dim Bead % Robust CV	PMTV	Δ PMTV	Qr	Br	P/F
Blue	FSC	FSC	19784	7.85	548	-17	N/A	N/A	Pass
Blue	F	SSC	57717	1.46	395	-3	N/A	N/A	Pass
Blue	E	FITC	75	71.16	452	-7	0.0266	436	Pass
Blue	D	PE	150	47.92	483	-7	0.2149	322	Pass
Blue	B	PE-Cy5	251	49.12	620	-10	0.0097	95	Pass
Blue	A	PE-Cy7	142	70.98	629	-14	0.0194	13	Pass
Red	C	APC	393	29.35	674	7	0.0217	108	Pass
Red	A	APC-Cy7	260	29.80	526	2	0.0051	1193	Pass
Violet	B	DAPI	97	61.35	446	3	0.1015	5864	Pass
Violet	A	AmCyan	143	46.33	510	8	0.0253	3424	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	59.82	47.84 - 71.76	N/A	N/A	-29.55	-29.44	1.12
Blue	20.24	16.19 - 24.29	1.42	1.14 - 1.70	0.00	0.00	1.52
Red	14.40	14.40 - 21.60	N/A	N/A	27.40	27.66	1.34

Window Extension: 7.00  
FSC Area Scaling Factor: 0.87

## Threshold

Threshold (FSC): 9698

## Fluidics

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

Comments