

# 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:	06/12/2023 09:11 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	123257	-2	2.12	123552	2.09
Blue	F	SSC	125000	126598	1	2.02	127249	2.06
Blue	E	FITC	20434	19916	-3	2.53	422	19.45
Blue	D	PE	34399	33732	-2	1.71	716	13.34
Blue	B	PE-Cy5	48387	47379	-3	3.54	1367	19.67
Blue	A	PE-Cy7	34835	34029	-3	5.08	757	28.77
Red	C	APC	54234	54263	0	3.30	1761	12.51
Red	A	APC-Cy7	42473	41114	-4	3.18	1230	11.63
Violet	B	DAPI	10884	10424	-5	3.17	728	12.24
Violet	A	AmCyan	41787	40564	-3	2.92	995	12.81

## Detector Settings (Continued)

Laser	Detector	Parameter	Dim Bead Median Channel	Dim Bead % Robust CV	PMTV	Δ PMTV	Qr	Br	P/F
Blue	FSC	FSC	14034	14.80	559	-6	N/A	N/A	Pass
Blue	F	SSC	58859	1.49	395	-3	N/A	N/A	Pass
Blue	E	FITC	76	72.68	452	-7	0.0261	498	Pass
Blue	D	PE	149	47.44	483	-7	0.2378	370	Pass
Blue	B	PE-Cy5	254	49.71	620	-10	0.0096	118	Pass
Blue	A	PE-Cy7	146	71.10	629	-14	0.0199	24	Pass
Red	C	APC	393	26.78	662	-5	0.0270	129	Pass
Red	A	APC-Cy7	259	27.62	515	-9	0.0054	808	Pass
Violet	B	DAPI	101	68.96	444	1	0.0682	5546	Pass
Violet	A	AmCyan	144	63.88	507	5	0.0211	6540	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	-30.07	-29.61	1.18
Blue	20.24	16.19 - 24.29	1.42	1.14 - 1.70	0.00	0.00	1.50
Red	17.13	14.40 - 21.60	N/A	N/A	27.21	27.76	1.27

Window Extension: 7.00  
FSC Area Scaling Factor: 0.90

## Threshold

Threshold (FSC): 9667

## Fluidics

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

Comments