

# 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:	02/20/2023 09:28 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	129142	3	1.71	129283	1.69
Blue	F	SSC	125000	123987	-1	1.69	124647	1.66
Blue	E	FITC	20434	19962	-3	2.33	423	18.73
Blue	D	PE	34399	34411	0	1.50	732	12.33
Blue	B	PE-Cy5	48387	48079	-1	3.48	1393	18.65
Blue	A	PE-Cy7	34835	34972	0	5.29	768	28.68
Red	C	APC	54234	54855	1	2.37	1784	12.58
Red	A	APC-Cy7	42473	42554	0	3.05	1270	11.39
Violet	B	DAPI	10884	10623	-3	2.11	675	11.39
Violet	A	AmCyan	41787	41327	-2	1.80	1017	9.86

## Detector Settings (Continued)

Laser	Detector	Parameter	Dim Bead Median Channel	Dim Bead % Robust CV	PMTV	Δ PMTV	Qr	Br	P/F
Blue	FSC	FSC	18074	9.81	548	-17	N/A	N/A	Pass
Blue	F	SSC	57572	1.59	389	-9	N/A	N/A	Pass
Blue	E	FITC	78	61.54	448	-11	0.0241	173	Pass
Blue	D	PE	150	45.51	479	-11	0.3010	420	Pass
Blue	B	PE-Cy5	258	46.86	617	-13	0.0107	105	Pass
Blue	A	PE-Cy7	150	68.99	631	-12	0.0201	15	Pass
Red	C	APC	400	27.34	668	1	0.0255	132	Pass
Red	A	APC-Cy7	271	28.01	525	1	0.0059	1476	Pass
Violet	B	DAPI	93	64.31	445	2	0.0798	4389	Pass
Violet	A	AmCyan	145	45.97	505	3	0.0306	4176	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	-30.60	-30.38	1.13
Blue	20.24	16.19 - 24.29	1.42	1.14 - 1.70	0.00	0.00	1.49
Red	15.98	14.40 - 21.60	N/A	N/A	28.20	28.51	1.25

Window Extension: 7.00  
FSC Area Scaling Factor: 0.87

## Threshold

Threshold (FSC): 9631

## Fluidics

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

Comments