

# 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:	11/20/2023 09:18 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	125599	0	0.87	125771	0.86
Blue	F	SSC	125000	124743	-1	1.73	125358	1.77
Blue	E	FITC	20434	20132	-2	2.31	425	18.27
Blue	D	PE	34399	33407	-3	1.52	707	12.56
Blue	B	PE-Cy5	48387	47139	-3	3.37	1367	18.37
Blue	A	PE-Cy7	34835	34089	-3	5.26	758	28.13
Red	C	APC	54234	54632	0	2.47	1771	12.87
Red	A	APC-Cy7	42473	42170	-1	2.55	1266	11.75
Violet	B	DAPI	10884	10533	-4	2.13	702	10.18
Violet	A	AmCyan	41787	41351	-2	1.81	1015	10.31

## Detector Settings (Continued)

Laser	Detector	Parameter	Dim Bead Median Channel	Dim Bead % Robust CV	PMTV	Δ PMTV	Qr	Br	P/F
Blue	FSC	FSC	20466	2.57	547	-18	N/A	N/A	Pass
Blue	F	SSC	57863	1.42	389	-9	N/A	N/A	Pass
Blue	E	FITC	77	62.73	446	-13	0.0265	233	Pass
Blue	D	PE	145	44.33	476	-14	0.2546	304	Pass
Blue	B	PE-Cy5	254	46.22	611	-19	0.0110	109	Pass
Blue	A	PE-Cy7	149	66.72	624	-19	0.0205	11	Pass
Red	C	APC	395	28.13	668	1	0.0244	134	Pass
Red	A	APC-Cy7	269	27.97	523	-1	0.0051	821	Pass
Violet	B	DAPI	97	57.16	438	-5	0.1071	5039	Pass
Violet	A	AmCyan	148	44.71	502	0	0.0248	3096	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	-30.51	-30.24	1.18
Blue	20.25	16.19 - 24.29	1.40	1.14 - 1.70	0.00	0.00	1.50
Red	14.77	14.40 - 21.60	N/A	N/A	28.08	28.36	1.27

Window Extension: 7.00  
FSC Area Scaling Factor: 0.88

## Threshold

Threshold (FSC): 11241

## Fluidics

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

Comments