

# 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:	11/14/2022 10:33 AM
Tube Loaded Manually:	Yes	Cytometer Baseline:	01/10/2022 09:13 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	125634	0	3.46	125788	3.51
Blue	F	SSC	125000	124813	-1	1.54	125390	1.50
Blue	E	FITC	20683	20152	-3	2.91	421	22.61
Blue	D	PE	34454	33944	-2	1.96	719	15.10
Blue	B	PE-Cy5	48076	46705	-3	4.26	1360	22.81
Blue	A	PE-Cy7	34574	34144	-2	6.38	747	34.40
Red	C	APC	54895	55250	0	2.84	1789	13.96
Red	A	APC-Cy7	41657	41829	0	2.89	1270	12.80
Violet	B	DAPI	11284	10685	-6	3.78	700	12.56
Violet	A	AmCyan	44139	43638	-2	3.50	1067	12.27

## Detector Settings (Continued)

Laser	Detector	Parameter	Dim Bead Median Channel	Dim Bead % Robust CV	PMTV	Δ PMTV	Qr	Br	P/F
Blue	FSC	FSC	16482	22.33	588	23	N/A	N/A	Pass
Blue	F	SSC	57414	1.33	412	14	N/A	N/A	Pass
Blue	E	FITC	77	74.13	476	17	0.0164	246	Pass
Blue	D	PE	145	53.50	508	18	0.1628	295	Pass
Blue	B	PE-Cy5	243	58.21	650	21	0.0070	101	Pass
Blue	A	PE-Cy7	139	87.68	663	19	0.0141	28	Pass
Red	C	APC	400	30.42	686	15	0.0204	123	Pass
Red	A	APC-Cy7	271	30.65	536	11	0.0043	1021	Pass
Violet	B	DAPI	98	68.03	458	9	0.0659	4578	Pass
Violet	A	AmCyan	155	58.64	522	15	0.0226	5721	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	-29.91	-29.61	1.16
Blue	20.21	16.19 - 24.29	1.42	1.14 - 1.70	0.00	0.00	1.50
Red	16.24	12.72 - 19.08	N/A	N/A	27.85	28.18	1.31

Window Extension: 7.00  
FSC Area Scaling Factor: 0.87

## Threshold

Threshold (FSC): 9526

## Fluidics

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

Comments