

# 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:	12/11/2023 09:26 AM
Tube Loaded Manually:	Yes	Cytometer Baseline:	12/07/2023 11:15 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	126436	1	1.04	126494	1.02
Blue	F	SSC	125000	122513	-2	2.42	123076	2.48
Blue	E	FITC	20274	19817	-3	2.50	419	19.11
Blue	D	PE	33957	32881	-4	1.84	701	12.66
Blue	B	PE-Cy5	48011	47160	-2	3.41	1365	18.41
Blue	A	PE-Cy7	35963	35353	-2	4.98	764	27.78
Red	C	APC	55970	56467	0	2.41	1826	12.77
Red	A	APC-Cy7	43527	43324	-1	2.58	1265	11.88
Violet	B	DAPI	12286	11869	-4	2.27	762	11.24
Violet	A	AmCyan	41615	40991	-2	1.94	1010	11.84

## Detector Settings (Continued)

Laser	Detector	Parameter	Dim Bead Median Channel	Dim Bead % Robust CV	PMTV	Δ PMTV	Qr	Br	P/F
Blue	FSC	FSC	21481	5.00	542	1	N/A	N/A	Pass
Blue	F	SSC	56615	2.44	387	1	N/A	N/A	Pass
Blue	E	FITC	77	67.14	445	0	0.0253	349	Pass
Blue	D	PE	144	44.93	475	-1	0.2585	331	Pass
Blue	B	PE-Cy5	251	46.55	611	-1	0.0110	106	Pass
Blue	A	PE-Cy7	149	68.32	627	-1	0.0220	21	Pass
Red	C	APC	405	27.80	670	-2	0.0247	119	Pass
Red	A	APC-Cy7	266	28.95	524	-4	0.0052	973	Pass
Violet	B	DAPI	107	64.97	445	-5	0.1034	6315	Pass
Violet	A	AmCyan	144	59.30	501	-4	0.0229	5799	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	-29.63	-29.25	1.20
Blue	20.24	16.19 - 24.29	1.42	1.14 - 1.70	0.00	0.00	1.46
Red	15.78	14.40 - 21.60	N/A	N/A	29.04	29.30	1.27

Window Extension: 7.00  
FSC Area Scaling Factor: 0.87

## Threshold

Threshold (FSC): 10953

## Fluidics

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

Comments