

# 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:	03/11/2024 08:36 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	123687	-2	0.92	123833	0.89
Blue	F	SSC	125000	123205	-2	1.8	123767	1.79
Blue	E	FITC	20274	19764	-3	2.39	419	17.5
Blue	D	PE	33957	32601	-4	1.67	690	12.51
Blue	B	PE-Cy5	48011	46218	-4	3.42	1330	18.01
Blue	A	PE-Cy7	35963	35032	-3	5.03	779	27.44
Red	C	APC	55970	55963	-1	2.46	1812	12.7
Red	A	APC-Cy7	43527	43319	-1	2.72	1286	11.79
Violet	B	DAPI	12286	11836	-4	2.39	828	11.17
Violet	A	AmCyan	41615	40927	-2	1.97	1007	10.78

## Detector Settings (Continued)

Laser	Detector	Parameter	Dim Bead Median Channel	Dim Bead % Robust CV	PMTV	Δ PMTV	Qr	Br	P/F
Blue	FSC	FSC	17825	2.82	536	-5	N/A	N/A	Pass
Blue	F	SSC	57155	1.32	386	0	N/A	N/A	Pass
Blue	E	FITC	75	62.73	443	-2	0.0304	292	Pass
Blue	D	PE	141	44.33	473	-3	0.2598	302	Pass
Blue	B	PE-Cy5	250	44.82	607	-5	0.0116	99	Pass
Blue	A	PE-Cy7	157	64.52	624	-4	0.0217	12	Pass
Red	C	APC	405	27.71	672	0	0.0252	135	Pass
Red	A	APC-Cy7	271	28.27	524	-4	0.0052	855	Pass
Violet	B	DAPI	115	55.6	444	-6	0.0512	2298	Pass
Violet	A	AmCyan	146	49.83	502	-3	0.0250	4223	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	59.80	47.84 - 71.76	N/A	N/A	-29.78	-29.40	1.20
Blue	20.24	16.19 - 24.29	1.42	1.14 - 1.70	0.00	0.00	1.46
Red	15.92	14.40 - 21.60	N/A	N/A	29.15	29.50	1.26

Window Extension: 7.00  
FSC Area Scaling Factor: 0.86

## Threshold

Threshold (FSC): 9609

## Fluidics

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

Comments