

# 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:	05/03/2021 09:20 AM
Tube Loaded Manually:	Yes	Cytometer Baseline:	01/07/2021 10:46 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	124530	-1	1.86	124675	1.85
Blue	F	SSC	125000	123547	-2	1.46	124274	1.46
Blue	E	FITC	20730	20144	-3	2.36	425	18.60
Blue	D	PE	37062	36886	-1	1.66	785	12.95
Blue	B	PE-Cy5	46445	45569	-2	3.60	1318	18.70
Blue	A	PE-Cy7	33824	33384	-2	5.42	730	29.40
Red	C	APC	57179	56680	-1	2.70	1842	13.25
Red	A	APC-Cy7	43213	42626	-2	2.76	1252	12.58
Violet	B	DAPI	11061	10788	-3	2.10	676	11.60
Violet	A	AmCyan	46201	45454	-2	1.76	1114	9.39

## Detector Settings (Continued)

Laser	Detector	Parameter	Dim Bead Median Channel	Dim Bead % Robust CV	PMTV	Δ PMTV	Qr	Br	P/F
Blue	FSC	FSC	15241	12.28	545	-20	N/A	N/A	Pass
Blue	F	SSC	56844	1.15	389	-3	N/A	N/A	Pass
Blue	E	FITC	77	63.96	445	-7	0.0256	245	Pass
Blue	D	PE	161	44.76	484	-7	0.2253	278	Pass
Blue	B	PE-Cy5	241	47.86	612	-9	0.0107	121	Pass
Blue	A	PE-Cy7	141	71.74	628	-9	0.0193	19	Pass
Red	C	APC	408	29.36	676	1	0.0231	157	Pass
Red	A	APC-Cy7	266	30.24	529	1	0.0046	950	Pass
Violet	B	DAPI	94	63.01	442	-1	0.0660	3318	Pass
Violet	A	AmCyan	161	40.04	503	1	0.0301	2764	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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## 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	59.82	47.84 - 71.76	N/A	N/A	-30.01	-29.40	1.18
Blue	20.25	16.21 - 24.31	1.39	1.14 - 1.70	0.00	0.00	1.53
Red	17.16	12.80 - 19.20	N/A	N/A	27.34	27.91	1.33

Window Extension: 7.00  
FSC Area Scaling Factor: 0.91

## Threshold

Threshold (FSC): 9547

## Fluidics

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

Comments