

# 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:	11/21/2022 09:18 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	125398	0	3.52	125610	3.46
Blue	F	SSC	125000	124724	-1	2.02	125421	2.04
Blue	E	FITC	20683	19960	-4	2.69	423	21.33
Blue	D	PE	34454	33917	-2	1.80	722	14.64
Blue	B	PE-Cy5	48076	47073	-3	4.01	1361	21.85
Blue	A	PE-Cy7	34574	33712	-3	5.78	734	33.01
Red	C	APC	54895	55131	0	2.79	1784	13.52
Red	A	APC-Cy7	41657	41488	-1	2.89	1221	12.63
Violet	B	DAPI	11284	10618	-6	5.72	676	14.22
Violet	A	AmCyan	44139	42988	-3	5.62	1058	15.25

## Detector Settings (Continued)

Laser	Detector	Parameter	Dim Bead Median Channel	Dim Bead % Robust CV	PMTV	Δ PMTV	Qr	Br	P/F
Blue	FSC	FSC	17655	21.99	579	14	N/A	N/A	Pass
Blue	F	SSC	57824	1.93	404	6	N/A	N/A	Pass
Blue	E	FITC	77	76.98	466	7	0.0206	458	Pass
Blue	D	PE	148	51.89	498	8	0.1811	331	Pass
Blue	B	PE-Cy5	246	55.37	639	10	0.0077	98	Pass
Blue	A	PE-Cy7	139	82.02	652	8	0.0153	22	Pass
Red	C	APC	396	29.65	679	8	0.0220	134	Pass
Red	A	APC-Cy7	257	30.70	530	5	0.0046	1035	Pass
Violet	B	DAPI	94	79.55	460	11	0.0811	7684	Pass
Violet	A	AmCyan	152	75.25	523	16	0.0170	7467	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	-30.90	-30.25	1.16
Blue	20.24	16.19 - 24.29	1.41	1.14 - 1.70	0.00	0.00	1.49
Red	15.01	12.72 - 19.08	N/A	N/A	28.11	28.75	1.30

Window Extension: 7.00  
FSC Area Scaling Factor: 0.85

## Threshold

Threshold (FSC): 10368

## Fluidics

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

Comments