

# 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:	08/14/2023 09:11 AM
Tube Loaded Manually:	Yes	Cytometer Baseline:	01/16/2023 10:20 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	123946	-1	2.78	124201	2.67
Blue	F	SSC	125000	123530	-2	2.14	124204	2.16
Blue	E	FITC	20434	19754	-4	2.46	417	20.64
Blue	D	PE	34399	33737	-2	1.70	714	13.97
Blue	B	PE-Cy5	48387	47811	-2	3.57	1380	20.19
Blue	A	PE-Cy7	34835	34107	-3	5.06	752	29.53
Red	C	APC	54234	54201	-1	2.91	1755	13.28
Red	A	APC-Cy7	42473	42080	-1	3.42	1251	12.47
Violet	B	DAPI	10884	10408	-5	2.22	702	11.06
Violet	A	AmCyan	41787	40782	-3	1.95	1004	11.02

## Detector Settings (Continued)

Laser	Detector	Parameter	Dim Bead Median Channel	Dim Bead % Robust CV	PMTV	Δ PMTV	Qr	Br	P/F
Blue	FSC	FSC	18857	13.49	547	-18	N/A	N/A	Pass
Blue	F	SSC	57078	1.77	400	2	N/A	N/A	Pass
Blue	E	FITC	76	74.13	450	-9	0.0220	422	Pass
Blue	D	PE	146	47.88	482	-8	0.1862	258	Pass
Blue	B	PE-Cy5	253	51.80	622	-8	0.0091	131	Pass
Blue	A	PE-Cy7	145	74.91	631	-12	0.0193	33	Pass
Red	C	APC	393	29.65	675	8	0.0235	195	Pass
Red	A	APC-Cy7	263	29.95	529	5	0.0047	1031	Pass
Violet	B	DAPI	101	60.28	441	-2	0.0849	5068	Pass
Violet	A	AmCyan	153	48.35	505	3	0.0233	4072	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	-29.70	-28.82	1.11
Blue	20.25	16.19 - 24.29	1.43	1.14 - 1.70	0.00	0.00	1.53
Red	17.95	14.40 - 21.60	N/A	N/A	26.41	27.21	1.33

Window Extension: 7.00  
FSC Area Scaling Factor: 0.87

## Threshold

Threshold (FSC): 11221

## Fluidics

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

Comments