

Cytometer Performance Report

Cytometer: FACSriaII
Cytometer Name: FACSriaII
Serial Number: 1
Input Device: Manual
Cytometer Configuration: 100 microns 25PSI standard

User: Administrator
Institution: N/A
Software: BD FACSDiva 9.0.1
Date: 08/17/2021 10:23 AM
Cytometer Baseline: 10/26/2020 10:09 AM
P/F: Pass

Setup Beads

Bead Product: CST Setup Beads **Part #:** 910858
Lot ID: 70757 **Expiration Date:** 03/31/2022
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	124208	-1	2.48	124063	2.42
Blue	C	SSC	125000	123463	-2	4.53	123760	4.54
Blue	B	Alexa Fluor 488	27038	26840	-1	3.60	612	19.45
Blue	A	PerCP	20137	20124	-1	5.19	755	23.55
Red	C	Alexa Fluor 647	20177	20036	-1	4.00	684	18.83
Red	B	APC-Alexa 700	53518	52987	-1	3.44	2494	9.09
Red	A	APC-Cy7	50002	49262	-2	4.55	2262	15.40
561 Yellow-Green	E	DsRed	95457	94409	-2	2.12	2429	7.82
561 Yellow-Green	D	PE-Texas Red	82387	81679	-1	2.65	1922	12.69
561 Yellow-Green	C	7-AAD	61828	61479	-1	3.33	2348	13.23
561 Yellow-Green	B	PE-Cy5-5	54739	54000	-2	3.85	2484	11.76
561 Yellow-Green	A	PE-Cy7	10496	9774	-7	4.70	419	15.57

Detector Settings (Continued)

Laser	Detector	Parameter	Dim Bead Median Channel	Dim Bead % Robust CV	PMTV	Δ PMTV	Qr	Br	P/F
Blue	FSC	FSC	18877	4.28	407	48	N/A	N/A	Pass
Blue	C	SSC	59312	2.79	362	9	N/A	N/A	Pass
Blue	B	Alexa Fluor 488	108	57.02	614	13	0.0208	0	Pass
Blue	A	PerCP	95	77.35	639	15	0.0040	313	Pass
Red	C	Alexa Fluor 647	105	49.88	580	7	0.0096	70	Pass
Red	B	APC-Alexa 700	382	22.99	612	17	0.0078	118	Pass
Red	A	APC-Cy7	341	41.56	675	25	0.0027	313	Pass
561 Yellow-Green	E	DsRed	520	17.99	641	1	0.5669	1	Pass
561 Yellow-Green	D	PE-Texas Red	379	29.88	623	2	0.0392	0	Pass
561 Yellow-Green	C	7-AAD	351	38.38	707	2	0.0412	51	Pass

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561 Yellow-Green	B	PE-Cy5-5	377	34.91	657	8	0.0275	233	Pass
561 Yellow-Green	A	PE-Cy7	66	38.68	469	10	0.0201	0	Pass

Specifications

PMTV Delta from baseline: 50 (BD)
Red Laser Primary Channel Bright Bead %Robust CV: 6.00 (Recommended)
561 Yellow-Green Laser Primary Channel Bright Bead %Robust CV: 6.00 (Recommended)
Blue Laser Primary Channel Bright Bead %Robust CV: 6.00 (Recommended)

Laser Settings

Laser	Delay (Trigger on FSC)	Delay (Trigger on Fluorescence)	Area Scaling Factor
Red	-76.55	-75.94	0.99
561 Yellow-Green	-39.33	-38.82	0.96
Blue	0.00	0.00	1.04

Window Extension: 2.00
FSC Area Scaling Factor: 0.95

Threshold

Threshold (FSC): 9984

Fluidics

Sheath Pressure: 24.75 Sample Pressure: 23.80
Nozzle Size: 100

Comments