

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: 10/04/2021 10:59 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	125471	0	2.66	125347	2.61
Blue	C	SSC	125000	124386	-1	3.76	124736	3.72
Blue	B	Alexa Fluor 488	27038	26912	-1	3.16	619	18.75
Blue	A	PerCP	20137	20182	0	5.74	753	23.41
Red	C	Alexa Fluor 647	20177	19690	-3	4.27	672	18.67
Red	B	APC-Alexa 700	53518	52242	-3	4.91	2412	9.36
Red	A	APC-Cy7	50002	49098	-2	6.43	2197	15.72
561 Yellow-Green	E	DsRed	95457	94804	-1	2.50	2429	8.15
561 Yellow-Green	D	PE-Texas Red	82387	81698	-1	3.17	1916	12.92
561 Yellow-Green	C	7-AAD	61828	60979	-2	4.44	2327	13.25
561 Yellow-Green	B	PE-Cy5-5	54739	52877	-4	5.89	2405	12.18
561 Yellow-Green	A	PE-Cy7	10496	9641	-9	6.93	403	15.77

Detector Settings (Continued)

Laser	Detector	Parameter	Dim Bead Median Channel	Dim Bead % Robust CV	PMTV	Δ PMTV	Qr	Br	P/F
Blue	FSC	FSC	18952	5.51	406	47	N/A	N/A	Pass
Blue	C	SSC	59199	3.54	361	8	N/A	N/A	Pass
Blue	B	Alexa Fluor 488	108	57.02	613	12	0.0225	0	Pass
Blue	A	PerCP	97	78.12	639	15	0.0042	387	Pass
Red	C	Alexa Fluor 647	106	49.88	577	4	0.0100	110	Pass
Red	B	APC-Alexa 700	380	23.29	607	12	0.0097	978	Pass
Red	A	APC-Cy7	350	40.86	671	21	0.0029	580	Pass
561 Yellow-Green	E	DsRed	515	18.40	642	2	0.5291	0	Pass
561 Yellow-Green	D	PE-Texas Red	386	29.65	625	4	0.0385	0	Pass
561 Yellow-Green	C	7-AAD	350	39.19	709	4	0.0444	87	Pass

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561 Yellow-Green	B	PE-Cy5-5	370	34.77	656	7	0.0312	306	Pass
561 Yellow-Green	A	PE-Cy7	65	38.68	469	10	0.0232	3	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	-76.60	-76.10	1.00
561 Yellow-Green	-39.39	-39.02	0.95
Blue	0.00	0.00	1.04

Window Extension: 2.00
FSC Area Scaling Factor: 0.95

Threshold

Threshold (FSC): 10173

Fluidics

Sheath Pressure: 24.85 Sample Pressure: 23.80
Nozzle Size: 100

Comments