

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 8.0.1
 Date: 02/01/2021 11:36 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	123492	-2	1.83	123344	1.86
Blue	C	SSC	125000	122249	-3	5.62	122437	5.63
Blue	B	Alexa Fluor 488	27038	26819	-1	4.3	614	17.76
Blue	A	PerCP	20137	20094	-1	5.69	724	22.81
Red	C	Alexa Fluor 647	20177	19883	-2	4.14	674	18.11
Red	B	APC-Alexa 700	53518	52358	-3	5.04	2231	8.72
Red	A	APC-Cy7	50002	49468	-2	6.31	1972	14.61
561 Yellow-Green	E	DsRed	95457	94169	-2	3.26	2406	8.27
561 Yellow-Green	D	PE-Texas Red	82387	80847	-2	3.45	1897	12.68
561 Yellow-Green	C	7-AAD	61828	61118	-2	4.01	2286	13.09
561 Yellow-Green	B	PE-Cy5-5	54739	53858	-2	5	2295	11.73
561 Yellow-Green	A	PE-Cy7	10496	9843	-7	6.85	364	15.69

Detector Settings (Continued)

Laser	Detector	Parameter	Dim Bead Median Channel	Dim Bead % Robust CV	PMTV	Δ PMTV	Qr	Br	P/F
Blue	FSC	FSC	20348	3.89	359	0	N/A	N/A	Pass
Blue	C	SSC	59480	4.83	356	3	N/A	N/A	Pass
Blue	B	Alexa Fluor 488	107	55.6	602	1	0.0271	0	Pass
Blue	A	PerCP	92	75.02	625	1	0.0046	328	Pass
Red	C	Alexa Fluor 647	107	46.16	570	-3	0.0105	47	Pass
Red	B	APC-Alexa 700	349	22.48	591	-4	0.0152	1727	Pass
Red	A	APC-Cy7	303	40.8	649	-1	0.0041	941	Pass
561 Yellow-Green	E	DsRed	529	17.86	641	1	0.5560	0	Pass
561 Yellow-Green	D	PE-Texas Red	389	29.43	621	0	0.0412	8	Pass
561 Yellow-Green	C	7-AAD	350	37.58	704	-1	0.0449	62	Pass

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561 Yellow-Green	B	PE-Cy5-5	349	35.22	648	-1	0.0341	311	Pass
561 Yellow-Green	A	PE-Cy7	58	38.89	458	-1	0.0266	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	-75.20	-74.64	1.02
561 Yellow-Green	-38.57	-37.98	0.97
Blue	0.00	0.00	1.12

Window Extension: 2.00
FSC Area Scaling Factor: 0.94

Threshold

Threshold (FSC): 9804

Fluidics

Sheath Pressure: 24.74 Sample Pressure: 23.71
Nozzle Size: 100

Comments