

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: 12/14/2020 10:04 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	123197	-2	1.61	123107	1.65
Blue	C	SSC	125000	123519	-2	3.86	123922	3.85
Blue	B	Alexa Fluor 488	27038	26658	-2	2.95	613	17.16
Blue	A	PerCP	20137	19845	-2	4.85	726	21.73
Red	C	Alexa Fluor 647	20177	20244	0	3.92	693	17.99
Red	B	APC-Alexa 700	53518	53636	0	4.12	2343	8.46
Red	A	APC-Cy7	50002	51013	2	5.43	2108	15.10
561 Yellow-Green	E	DsRed	95457	94042	-2	3.30	2411	8.00
561 Yellow-Green	D	PE-Texas Red	82387	81793	-1	3.36	1919	12.14
561 Yellow-Green	C	7-AAD	61828	60727	-2	3.93	2280	13.03
561 Yellow-Green	B	PE-Cy5-5	54739	53359	-3	4.58	2323	11.44
561 Yellow-Green	A	PE-Cy7	10496	9796	-7	6.07	378	14.34

Detector Settings (Continued)

Laser	Detector	Parameter	Dim Bead Median Channel	Dim Bead % Robust CV	PMTV	Δ PMTV	Qr	Br	P/F
Blue	FSC	FSC	20077	2.79	352	-7	N/A	N/A	Pass
Blue	C	SSC	59597	2.83	355	2	N/A	N/A	Pass
Blue	B	Alexa Fluor 488	109	53.91	598	-3	0.0284	0	Pass
Blue	A	PerCP	94	73.26	623	-1	0.0050	409	Pass
Red	C	Alexa Fluor 647	111	47.17	576	3	0.0106	93	Pass
Red	B	APC-Alexa 700	367	22.46	599	4	0.0130	1487	Pass
Red	A	APC-Cy7	330	40.48	661	11	0.0033	513	Pass
561 Yellow-Green	E	DsRed	533	17.13	638	-2	0.6051	0	Pass
561 Yellow-Green	D	PE-Texas Red	400	28.87	619	-2	0.0460	43	Pass
561 Yellow-Green	C	7-AAD	358	37.06	701	-4	0.0450	66	Pass

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561 Yellow-Green	B	PE-Cy5-5	360	33.70	647	-2	0.0338	277	Pass
561 Yellow-Green	A	PE-Cy7	62	36.49	459	0	0.0305	24	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	-75.32	-74.71	1.01
561 Yellow-Green	-38.57	-38.10	0.96
Blue	0.00	0.00	1.11

Window Extension: 2.00
FSC Area Scaling Factor: 0.94

Threshold

Threshold (FSC): 10706

Fluidics

Sheath Pressure: 24.78 Sample Pressure: 23.71
Nozzle Size: 100

Comments