

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: 02/15/2021 10:13 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	122128	-3	2	122058	2
Blue	C	SSC	125000	122537	-2	4.91	122937	4.73
Blue	B	Alexa Fluor 488	27038	26568	-2	3.45	613	17.47
Blue	A	PerCP	20137	20170	0	5.23	731	22.42
Red	C	Alexa Fluor 647	20177	20191	0	3.79	690	17.63
Red	B	APC-Alexa 700	53518	53496	-1	4.12	2252	8.48
Red	A	APC-Cy7	50002	49691	-1	5.46	1962	14.64
561 Yellow-Green	E	DsRed	95457	95291	-1	2.86	2447	7.75
561 Yellow-Green	D	PE-Texas Red	82387	81597	-1	3.01	1916	12.15
561 Yellow-Green	C	7-AAD	61828	61494	-1	3.76	2299	13
561 Yellow-Green	B	PE-Cy5-5	54739	54111	-2	4.62	2294	11.4
561 Yellow-Green	A	PE-Cy7	10496	9848	-7	6.03	362	14.67

Detector Settings (Continued)

Laser	Detector	Parameter	Dim Bead Median Channel	Dim Bead % Robust CV	PMTV	Δ PMTV	Qr	Br	P/F
Blue	FSC	FSC	20226	3.98	350	-9	N/A	N/A	Pass
Blue	C	SSC	59356	3.96	353	0	N/A	N/A	Pass
Blue	B	Alexa Fluor 488	109	51.97	602	1	0.0262	0	Pass
Blue	A	PerCP	92	72.32	623	-1	0.0046	263	Pass
Red	C	Alexa Fluor 647	107	46.16	573	0	0.0110	62	Pass
Red	B	APC-Alexa 700	339	22.57	592	-3	0.0131	870	Pass
Red	A	APC-Cy7	291	40.29	651	1	0.0038	398	Pass
561 Yellow-Green	E	DsRed	531	17.32	641	1	0.6261	1	Pass
561 Yellow-Green	D	PE-Texas Red	393	28.48	621	0	0.0442	10	Pass
561 Yellow-Green	C	7-AAD	348	36.65	703	-2	0.0443	40	Pass

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561 Yellow-Green	B	PE-Cy5-5	347	33.96	647	-2	0.0350	256	Pass
561 Yellow-Green	A	PE-Cy7	57	37.69	457	-2	0.0299	1	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	-75.44	-74.93	1.01
561 Yellow-Green	-38.56	-38.16	0.97
Blue	0.00	0.00	1.13

Window Extension: 2.00
FSC Area Scaling Factor: 0.95

Threshold

Threshold (FSC): 11556

Fluidics

Sheath Pressure: 24.80 Sample Pressure: 23.71
Nozzle Size: 100

Comments