

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: 08/30/2021 11:18 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	124406	-1	2.34	124343	2.33
Blue	C	SSC	125000	124624	-1	4.20	125030	4.20
Blue	B	Alexa Fluor 488	27038	26548	-2	3.62	608	19.14
Blue	A	PerCP	20137	20059	-1	6.37	721	23.24
Red	C	Alexa Fluor 647	20177	19647	-3	4.14	666	18.86
Red	B	APC-Alexa 700	53518	52451	-2	4.42	2141	9.29
Red	A	APC-Cy7	50002	49788	-1	5.69	1880	15.48
561 Yellow-Green	E	DsRed	95457	94743	-1	2.10	2440	7.94
561 Yellow-Green	D	PE-Texas Red	82387	81320	-2	2.53	1920	12.60
561 Yellow-Green	C	7-AAD	61828	60979	-2	4.02	2283	13.09
561 Yellow-Green	B	PE-Cy5-5	54739	54293	-1	4.69	2250	11.96
561 Yellow-Green	A	PE-Cy7	10496	9800	-7	5.64	345	15.65

Detector Settings (Continued)

Laser	Detector	Parameter	Dim Bead Median Channel	Dim Bead % Robust CV	PMTV	Δ PMTV	Qr	Br	P/F
Blue	FSC	FSC	18990	4.34	402	43	N/A	N/A	Pass
Blue	C	SSC	59350	3.59	360	7	N/A	N/A	Pass
Blue	B	Alexa Fluor 488	107	57.58	610	9	0.0219	0	Pass
Blue	A	PerCP	91	78.39	631	7	0.0045	384	Pass
Red	C	Alexa Fluor 647	102	49.90	578	5	0.0097	65	Pass
Red	B	APC-Alexa 700	323	24.41	598	3	0.0103	537	Pass
Red	A	APC-Cy7	286	42.43	657	7	0.0035	454	Pass
561 Yellow-Green	E	DsRed	529	18.03	643	3	0.5453	0	Pass
561 Yellow-Green	D	PE-Texas Red	391	29.80	623	2	0.0400	11	Pass
561 Yellow-Green	C	7-AAD	348	37.98	706	1	0.0450	68	Pass

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561 Yellow-Green	B	PE-Cy5-5	343	34.79	647	-2	0.0315	208	Pass
561 Yellow-Green	A	PE-Cy7	55	40.90	456	-3	0.0265	14	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	-76.43	-75.93	0.99
561 Yellow-Green	-39.19	-38.83	0.96
Blue	0.00	0.00	1.05

Window Extension: 2.00
FSC Area Scaling Factor: 0.96

Threshold

Threshold (FSC): 10496

Fluidics

Sheath Pressure: 24.84 Sample Pressure: 23.80
Nozzle Size: 100

Comments