

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: 10/16/2017 11:24 AM
 Cytometer Baseline: 08/07/2017 11:48 AM
 P/F: Fail

Setup Beads

Bead Product: CST Setup Beads Part #: 910858
 Lot ID: 70106 Expiration Date: 01/31/2018
 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	124488	-1	2.24	124681	2.16
Blue	C	SSC	125000	124528	-1	2.75	125847	2.68
Blue	B	Alexa Fluor 488	27891	27564	-2	2.56	751	15.04
Blue	A	PerCP	36335	35876	-2	7	829	22.9
Red	C	Alexa Fluor 647	31178	31166	-1	4.48	835	20.33
Red	B	APC-Alexa 700	151187	151642	0	5.37	3369	9.73
Red	A	APC-Cy7	132410	132125	-1	6.59	2595	17.44
561 Yellow-Green	E	DsRed	89854	89594	-1	2.95	2583	8.59
561 Yellow-Green	D	PE-Texas Red	78195	77782	-1	3.37	2099	13.38
561 Yellow-Green	C	7-AAD	107664	106431	-2	4.08	2834	13.62
561 Yellow-Green	B	PE-Cy5-5	127783	125300	-2	5.94	2980	15.66
561 Yellow-Green	A	PE-Cy7	37041	35639	-4	8.71	650	16.62

Detector Settings (Continued)

Laser	Detector	Parameter	Dim Bead Median Channel	Dim Bead % Robust CV	PMTV	Δ PMTV	Qr	Br	P/F
Blue	FSC	FSC	14803	5.94	348	3	N/A	N/A	Pass
Blue	C	SSC	64620	2.13	366	6	N/A	N/A	Pass
Blue	B	Alexa Fluor 488	111	49.91	605	-2	0.0276	0	Pass
Blue	A	PerCP	125	65.03	637	6	0.0040	336	Pass
Red	C	Alexa Fluor 647	158	47.52	607	1	0.0073	59	Pass
Red	B	APC-Alexa 700	587	21.77	655	3	0.0066	1259	Pass
Red	A	APC-Cy7	446	43.13	717	14	0.0019	747	Pass
561 Yellow-Green	E	DsRed	513	19.94	668	-3	0.4208	1	Pass
561 Yellow-Green	D	PE-Texas Red	382	33.49	652	-2	0.0308	37	Pass
561 Yellow-Green	C	7-AAD	473	35.31	743	-8	0.0294	46	Pass

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561 Yellow-Green	B	PE-Cy5-5	489	41.18	747	54 (1)	0.0122	229	Fail
561 Yellow-Green	A	PE-Cy7	111	37.39	502	-2	0.0191	35	Pass

(1) Parameter is out of specifications range.

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	-75.05	-74.04	1.01
561 Yellow-Green	-39.10	-38.22	0.97
Blue	0.00	0.00	1.10

Window Extension: 2.00
FSC Area Scaling Factor: 0.85

Threshold

Threshold (FSC): 9922

Fluidics

Sheath Pressure: 24.80 Sample Pressure: 23.75
Nozzle Size: 100

Comments