

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: 11/30/2020 11:15 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	124084	-1	1.94	124044	1.91
Blue	C	SSC	125000	122541	-2	3.75	122899	3.57
Blue	B	Alexa Fluor 488	27038	26492	-3	3.02	612	17.14
Blue	A	PerCP	20137	20030	-1	4.75	728	22.19
Red	C	Alexa Fluor 647	20177	19873	-2	3.87	678	17.76
Red	B	APC-Alexa 700	53518	52694	-2	3.57	2225	8.49
Red	A	APC-Cy7	50002	49620	-1	4.54	1962	14.43
561 Yellow-Green	E	DsRed	95457	94819	-1	3.30	2429	8.04
561 Yellow-Green	D	PE-Texas Red	82387	81071	-2	3.45	1904	12.45
561 Yellow-Green	C	7-AAD	61828	60764	-2	3.81	2266	12.99
561 Yellow-Green	B	PE-Cy5-5	54739	54040	-2	4.35	2290	11.29
561 Yellow-Green	A	PE-Cy7	10496	9747	-8	5.39	359	14.79

Detector Settings (Continued)

Laser	Detector	Parameter	Dim Bead Median Channel	Dim Bead % Robust CV	PMTV	Δ PMTV	Qr	Br	P/F
Blue	FSC	FSC	20305	3.29	351	-8	N/A	N/A	Pass
Blue	C	SSC	57935	3.15	354	1	N/A	N/A	Pass
Blue	B	Alexa Fluor 488	107	50.96	597	-4	0.0267	0	Pass
Blue	A	PerCP	89	74.13	622	-2	0.0047	295	Pass
Red	C	Alexa Fluor 647	106	46.60	571	-2	0.0109	74	Pass
Red	B	APC-Alexa 700	341	21.62	593	-2	0.0113	22	Pass
Red	A	APC-Cy7	295	39.23	650	0	0.0036	234	Pass
561 Yellow-Green	E	DsRed	522	17.33	640	0	0.5928	0	Pass
561 Yellow-Green	D	PE-Texas Red	386	28.24	620	-1	0.0420	0	Pass
561 Yellow-Green	C	7-AAD	343	36.33	703	-2	0.0445	34	Pass

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561 Yellow-Green	B	PE-Cy5-5	345	32.81	648	-1	0.0343	187	Pass
561 Yellow-Green	A	PE-Cy7	57	37.69	456	-3	0.0279	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	-75.19	-74.61	1.02
561 Yellow-Green	-38.45	-38.01	0.97
Blue	0.00	0.00	1.12

Window Extension: 2.00
FSC Area Scaling Factor: 0.95

Threshold

Threshold (FSC): 12045

Fluidics

Sheath Pressure: 24.72 Sample Pressure: 23.71
Nozzle Size: 100

Comments