

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: 01/25/2021 11:09 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	124164	-1	1.60	124113	1.55
Blue	C	SSC	125000	122612	-2	5.15	122905	5.04
Blue	B	Alexa Fluor 488	27038	26340	-3	3.96	607	17.41
Blue	A	PerCP	20137	20059	-1	5.40	730	22.41
Red	C	Alexa Fluor 647	20177	20055	-1	3.96	681	17.92
Red	B	APC-Alexa 700	53518	53211	-1	4.20	2284	8.45
Red	A	APC-Cy7	50002	49230	-2	5.47	1991	14.62
561 Yellow-Green	E	DsRed	95457	94379	-2	3.08	2423	8.04
561 Yellow-Green	D	PE-Texas Red	82387	81331	-2	3.21	1908	12.61
561 Yellow-Green	C	7-AAD	61828	60789	-2	3.95	2282	12.86
561 Yellow-Green	B	PE-Cy5-5	54739	53418	-3	4.63	2289	11.51
561 Yellow-Green	A	PE-Cy7	10496	9674	-8	6.31	364	14.94

Detector Settings (Continued)

Laser	Detector	Parameter	Dim Bead Median Channel	Dim Bead % Robust CV	PMTV	Δ PMTV	Qr	Br	P/F
Blue	FSC	FSC	20235	4.56	353	-6	N/A	N/A	Pass
Blue	C	SSC	59254	4.40	354	1	N/A	N/A	Pass
Blue	B	Alexa Fluor 488	108	50.44	596	-5	0.0263	0	Pass
Blue	A	PerCP	92	73.24	622	-2	0.0046	299	Pass
Red	C	Alexa Fluor 647	108	47.11	571	-2	0.0108	90	Pass
Red	B	APC-Alexa 700	355	22.09	592	-3	0.0133	1081	Pass
Red	A	APC-Cy7	304	38.68	651	1	0.0036	253	Pass
561 Yellow-Green	E	DsRed	527	17.65	641	1	0.5843	0	Pass
561 Yellow-Green	D	PE-Texas Red	390	28.99	622	1	0.0408	0	Pass
561 Yellow-Green	C	7-AAD	346	37.58	704	-1	0.0466	71	Pass

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561 Yellow-Green	B	PE-Cy5-5	345	33.96	648	-1	0.0335	234	Pass
561 Yellow-Green	A	PE-Cy7	58	38.89	458	-1	0.0290	33	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	-75.29	-74.85	1.02
561 Yellow-Green	-38.48	-38.20	0.97
Blue	0.00	0.00	1.11

Window Extension: 2.00
FSC Area Scaling Factor: 0.94

Threshold

Threshold (FSC): 10358

Fluidics

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

Comments