

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: 06/17/2019 10:31 AM
 Cytometer Baseline: 01/07/2019 04:25 PM
 P/F: Pass

Setup Beads

Bead Product: CST Setup Beads Part #: 910858
 Lot ID: 72518 Expiration Date: 09/30/2019
 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	123710	-2	2.07	123774	2.18
Blue	C	SSC	125000	125845	0	3.27	126953	3.36
Blue	B	Alexa Fluor 488	27175	26555	-3	2.97	659	15.70
Blue	A	PerCP	34893	34588	-1	5.99	1006	21.25
Red	C	Alexa Fluor 647	25689	25176	-2	4.36	664	18.76
Red	B	APC-Alexa 700	82209	79372	-4	9.45	2692	8.51
Red	A	APC-Cy7	72773	70211	-4	11.51	2179	14.26
561 Yellow-Green	E	DsRed	99857	99254	-1	1.71	2444	7.47
561 Yellow-Green	D	PE-Texas Red	77376	76913	-1	2.18	1759	11.75
561 Yellow-Green	C	7-AAD	84099	83222	-2	3.38	2619	11.76
561 Yellow-Green	B	PE-Cy5-5	74528	73104	-2	6.51	2469	10.03
561 Yellow-Green	A	PE-Cy7	19231	18245	-6	8.98	519	12.79

Detector Settings (Continued)

Laser	Detector	Parameter	Dim Bead Median Channel	Dim Bead % Robust CV	PMTV	Δ PMTV	Qr	Br	P/F
Blue	FSC	FSC	17221	3.99	330	14	N/A	N/A	Pass
Blue	C	SSC	59458	3.20	349	10	N/A	N/A	Pass
Blue	B	Alexa Fluor 488	105	51.64	589	10	0.0288	0	Pass
Blue	A	PerCP	144	63.19	636	10	0.0049	328	Pass
Red	C	Alexa Fluor 647	111	47.11	574	2	0.0104	63	Pass
Red	B	APC-Alexa 700	384	20.38	592	1	-0.0092	0	Pass
Red	A	APC-Cy7	304	37.44	648	2	0.0111	6473	Pass
561 Yellow-Green	E	DsRed	558	15.96	634	1	0.5527	0	Pass
561 Yellow-Green	D	PE-Texas Red	370	27.29	604	-2	0.0423	4	Pass
561 Yellow-Green	C	7-AAD	425	32.28	704	1	0.0472	66	Pass

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561 Yellow-Green	B	PE-Cy5-5	359	28.98	630	-14	0.0628	725	Pass
561 Yellow-Green	A	PE-Cy7	75	34.06	458	-1	0.0588	305	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	-71.17	-70.54	1.04
561 Yellow-Green	-36.97	-36.44	1.02
Blue	0.00	0.00	1.18

Window Extension: 2.00
FSC Area Scaling Factor: 0.97

Threshold

Threshold (FSC): 10816

Fluidics

Sheath Pressure: 24.77 Sample Pressure: 23.77
Nozzle Size: 100

Comments