

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: 10/26/2020 10:15 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	123552	-2	2.20	123525	2.17
Blue	C	SSC	125000	124056	-1	4.64	124382	4.55
Blue	B	Alexa Fluor 488	27038	26840	-1	3.54	618	17.69
Blue	A	PerCP	20137	20131	-1	4.86	727	22.32
Red	C	Alexa Fluor 647	20177	19952	-2	3.88	677	18.08
Red	B	APC-Alexa 700	53518	52640	-2	3.13	2216	8.57
Red	A	APC-Cy7	50002	49201	-2	4.01	1924	14.72
561 Yellow-Green	E	DsRed	95457	94687	-1	3.78	2421	8.39
561 Yellow-Green	D	PE-Texas Red	82387	81616	-1	3.85	1915	12.73
561 Yellow-Green	C	7-AAD	61828	61107	-2	4.10	2278	13.12
561 Yellow-Green	B	PE-Cy5-5	54739	54480	-1	4.09	2298	11.43
561 Yellow-Green	A	PE-Cy7	10496	9810	-7	5.00	358	15.39

Detector Settings (Continued)

Laser	Detector	Parameter	Dim Bead Median Channel	Dim Bead % Robust CV	PMTV	Δ PMTV	Qr	Br	P/F
Blue	FSC	FSC	20419	3.80	352	-7	N/A	N/A	Pass
Blue	C	SSC	59739	4.07	356	3	N/A	N/A	Pass
Blue	B	Alexa Fluor 488	108	51.97	601	0	0.0251	0	Pass
Blue	A	PerCP	90	75.05	625	1	0.0047	322	Pass
Red	C	Alexa Fluor 647	106	47.50	572	-1	0.0105	73	Pass
Red	B	APC-Alexa 700	343	22.33	594	-1	0.0103	132	Pass
Red	A	APC-Cy7	297	39.64	649	-1	0.0034	190	Pass
561 Yellow-Green	E	DsRed	520	17.56	640	0	0.5629	0	Pass
561 Yellow-Green	D	PE-Texas Red	389	28.68	621	0	0.0409	0	Pass
561 Yellow-Green	C	7-AAD	347	37.17	705	0	0.0446	50	Pass

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561 Yellow-Green	B	PE-Cy5-5	350	33.54	650	1	0.0328	201	Pass
561 Yellow-Green	A	PE-Cy7	57	37.69	456	-3	0.0248	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	-73.73	-73.23	1.03
561 Yellow-Green	-37.80	-37.32	0.98
Blue	0.00	0.00	1.12

Window Extension: 2.00
FSC Area Scaling Factor: 0.94

Threshold

Threshold (FSC): 13585

Fluidics

Sheath Pressure: 24.76 Sample Pressure: 23.71
Nozzle Size: 100

Comments