

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 9.0.1
 Date: 04/26/2021 09:33 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	124684	-1	1.81	124555	1.82
Blue	C	SSC	125000	121675	-3	4.11	121976	3.85
Blue	B	Alexa Fluor 488	27038	26640	-2	3.16	610	18.00
Blue	A	PerCP	20137	19903	-2	5.11	756	22.98
Red	C	Alexa Fluor 647	20177	19827	-2	4.81	676	18.67
Red	B	APC-Alexa 700	53518	52978	-2	4.86	2532	9.26
Red	A	APC-Cy7	50002	49817	-1	6.04	2350	15.48
561 Yellow-Green	E	DsRed	95457	94798	-1	2.21	2437	7.94
561 Yellow-Green	D	PE-Texas Red	82387	82060	-1	2.53	1931	12.55
561 Yellow-Green	C	7-AAD	61828	61750	-1	3.43	2368	13.02
561 Yellow-Green	B	PE-Cy5-5	54739	53686	-2	3.93	2505	11.56
561 Yellow-Green	A	PE-Cy7	10496	9700	-8	5.22	427	15.43

Detector Settings (Continued)

Laser	Detector	Parameter	Dim Bead Median Channel	Dim Bead % Robust CV	PMTV	Δ PMTV	Qr	Br	P/F
Blue	FSC	FSC	20337	3.45	357	-2	N/A	N/A	Pass
Blue	C	SSC	59267	3.43	355	2	N/A	N/A	Pass
Blue	B	Alexa Fluor 488	108	55.98	603	2	0.0255	0	Pass
Blue	A	PerCP	96	76.69	631	7	0.0042	359	Pass
Red	C	Alexa Fluor 647	107	48.95	577	4	0.0101	93	Pass
Red	B	APC-Alexa 700	409	22.39	612	17	0.0095	976	Pass
Red	A	APC-Cy7	377	41.05	678	28	0.0028	820	Pass
561 Yellow-Green	E	DsRed	533	17.46	639	-1	0.5411	0	Pass
561 Yellow-Green	D	PE-Texas Red	396	28.93	622	1	0.0399	0	Pass
561 Yellow-Green	C	7-AAD	366	36.97	708	3	0.0427	53	Pass

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561 Yellow-Green	B	PE-Cy5-5	393	34.61	658	9	0.0291	318	Pass
561 Yellow-Green	A	PE-Cy7	71	38.07	471	12	0.0207	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	-75.28	-74.86	1.01
561 Yellow-Green	-38.58	-38.21	0.97
Blue	0.00	0.00	1.11

Window Extension: 2.00
FSC Area Scaling Factor: 0.93

Threshold

Threshold (FSC): 11250

Fluidics

Sheath Pressure: 24.80 Sample Pressure: 23.80
Nozzle Size: 100

Comments