

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: 10/11/2021 11:35 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	123902	-1	2.31	123842	2.33
Blue	C	SSC	125000	123701	-2	3.86	124083	3.78
Blue	B	Alexa Fluor 488	27038	26679	-2	3.29	613	18.60
Blue	A	PerCP	20137	19982	-1	5.67	755	23.49
Red	C	Alexa Fluor 647	20177	19774	-2	4.51	678	18.89
Red	B	APC-Alexa 700	53518	51660	-4	5.42	2462	9.40
Red	A	APC-Cy7	50002	49008	-2	6.80	2295	15.86
561 Yellow-Green	E	DsRed	95457	94387	-2	2.17	2424	7.81
561 Yellow-Green	D	PE-Texas Red	82387	82057	-1	2.72	1929	12.63
561 Yellow-Green	C	7-AAD	61828	61091	-2	3.94	2359	13.22
561 Yellow-Green	B	PE-Cy5-5	54739	53694	-2	5.06	2490	12.07
561 Yellow-Green	A	PE-Cy7	10496	9591	-9	6.32	417	15.68

Detector Settings (Continued)

Laser	Detector	Parameter	Dim Bead Median Channel	Dim Bead % Robust CV	PMTV	Δ PMTV	Qr	Br	P/F
Blue	FSC	FSC	18687	4.36	401	42	N/A	N/A	Pass
Blue	C	SSC	57801	3.40	359	6	N/A	N/A	Pass
Blue	B	Alexa Fluor 488	105	53.91	609	8	0.0220	0	Pass
Blue	A	PerCP	93	77.50	637	13	0.0040	304	Pass
Red	C	Alexa Fluor 647	101	50.87	579	6	0.0096	74	Pass
Red	B	APC-Alexa 700	373	23.26	610	15	0.0104	1127	Pass
Red	A	APC-Cy7	345	41.75	677	27	0.0028	508	Pass
561 Yellow-Green	E	DsRed	491	18.24	643	3	0.5657	0	Pass
561 Yellow-Green	D	PE-Texas Red	373	29.73	625	4	0.0395	0	Pass
561 Yellow-Green	C	7-AAD	338	38.33	710	5	0.0416	40	Pass

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561 Yellow-Green	B	PE-Cy5-5	369	34.66	660	11	0.0278	205	Pass
561 Yellow-Green	A	PE-Cy7	66	38.68	472	13	0.0214	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	-76.42	-75.94	0.99
561 Yellow-Green	-39.27	-38.88	0.96
Blue	0.00	0.00	1.07

Window Extension: 2.00
FSC Area Scaling Factor: 0.96

Threshold

Threshold (FSC): 11519

Fluidics

Sheath Pressure: 24.82 Sample Pressure: 23.80
Nozzle Size: 100

Comments