

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: 04/08/2021 09:09 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	124612	-1	1.62	124579	1.64
Blue	C	SSC	125000	122651	-2	4.97	123100	4.75
Blue	B	Alexa Fluor 488	27038	26700	-2	3.62	614	17.59
Blue	A	PerCP	20137	20080	-1	5.16	744	22.50
Red	C	Alexa Fluor 647	20177	20010	-1	5.00	680	18.87
Red	B	APC-Alexa 700	53518	51623	-4	5.61	2313	9.34
Red	A	APC-Cy7	50002	48766	-3	6.85	2083	15.59
561 Yellow-Green	E	DsRed	95457	94008	-2	2.78	2416	7.95
561 Yellow-Green	D	PE-Texas Red	82387	81307	-2	2.97	1908	12.54
561 Yellow-Green	C	7-AAD	61828	60867	-2	3.70	2301	13.01
561 Yellow-Green	B	PE-Cy5-5	54739	53415	-3	4.72	2367	11.50
561 Yellow-Green	A	PE-Cy7	10496	9550	-10	6.59	381	15.01

Detector Settings (Continued)

Laser	Detector	Parameter	Dim Bead Median Channel	Dim Bead % Robust CV	PMTV	Δ PMTV	Qr	Br	P/F
Blue	FSC	FSC	20502	2.67	348	-11	N/A	N/A	Pass
Blue	C	SSC	59675	4.29	352	-1	N/A	N/A	Pass
Blue	B	Alexa Fluor 488	110	54.46	598	-3	0.0273	0	Pass
Blue	A	PerCP	93	73.24	624	0	0.0045	280	Pass
Red	C	Alexa Fluor 647	106	49.42	579	6	0.0099	85	Pass
Red	B	APC-Alexa 700	361	23.39	606	11	0.0125	1730	Pass
Red	A	APC-Cy7	321	41.29	665	15	0.0033	626	Pass
561 Yellow-Green	E	DsRed	522	17.54	641	1	0.5758	0	Pass
561 Yellow-Green	D	PE-Texas Red	385	28.98	623	2	0.0407	0	Pass
561 Yellow-Green	C	7-AAD	347	37.99	708	3	0.0442	63	Pass

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561 Yellow-Green	B	PE-Cy5-5	358	34.77	654	5	0.0334	315	Pass
561 Yellow-Green	A	PE-Cy7	60	37.65	463	4	0.0269	2	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	-75.22	-74.74	1.02
561 Yellow-Green	-38.55	-38.02	0.97
Blue	0.00	0.00	1.13

Window Extension: 2.00
FSC Area Scaling Factor: 0.94

Threshold

Threshold (FSC): 10309

Fluidics

Sheath Pressure: 24.81 Sample Pressure: 23.74
Nozzle Size: 100

Comments