

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: 01/04/2021 02:32 PM
 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	123818	-1	2.06	123684	2.10
Blue	C	SSC	125000	123414	-2	6.22	123678	6.07
Blue	B	Alexa Fluor 488	27038	26660	-2	4.85	609	18.01
Blue	A	PerCP	20137	20049	-1	6.12	724	22.85
Red	C	Alexa Fluor 647	20177	19711	-3	3.83	672	18.20
Red	B	APC-Alexa 700	53518	52887	-2	4.93	2248	8.66
Red	A	APC-Cy7	50002	48911	-3	6.59	1957	14.66
561 Yellow-Green	E	DsRed	95457	95614	0	3.41	2445	8.46
561 Yellow-Green	D	PE-Texas Red	82387	81935	-1	3.57	1924	12.98
561 Yellow-Green	C	7-AAD	61828	61202	-2	4.19	2292	13.15
561 Yellow-Green	B	PE-Cy5-5	54739	53776	-2	5.28	2292	11.90
561 Yellow-Green	A	PE-Cy7	10496	9688	-8	7.47	358	15.63

Detector Settings (Continued)

Laser	Detector	Parameter	Dim Bead Median Channel	Dim Bead % Robust CV	PMTV	Δ PMTV	Qr	Br	P/F
Blue	FSC	FSC	20776	4.27	355	-4	N/A	N/A	Pass
Blue	C	SSC	60055	5.74	353	0	N/A	N/A	Pass
Blue	B	Alexa Fluor 488	107	56.78	596	-5	0.0274	0	Pass
Blue	A	PerCP	92	75.05	622	-2	0.0046	332	Pass
Red	C	Alexa Fluor 647	106	46.60	570	-3	0.0102	45	Pass
Red	B	APC-Alexa 700	350	22.41	593	-2	0.0151	1652	Pass
Red	A	APC-Cy7	301	40.07	650	0	0.0041	819	Pass
561 Yellow-Green	E	DsRed	533	18.03	643	3	0.5303	0	Pass
561 Yellow-Green	D	PE-Texas Red	392	30.02	626	5	0.0391	5	Pass
561 Yellow-Green	C	7-AAD	347	38.82	708	3	0.0454	83	Pass

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561 Yellow-Green	B	PE-Cy5-5	346	35.87	651	2	0.0339	325	Pass
561 Yellow-Green	A	PE-Cy7	57	40.21	460	1	0.0289	39	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	-75.19	-74.58	1.02
561 Yellow-Green	-38.48	-37.89	0.97
Blue	0.00	0.00	1.14

Window Extension: 2.00
FSC Area Scaling Factor: 0.95

Threshold

Threshold (FSC): 10263

Fluidics

Sheath Pressure: 24.78 Sample Pressure: 23.71
Nozzle Size: 100

Comments