

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: 05/03/2021 10:07 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	123828	-1	1.90	123765	1.87
Blue	C	SSC	125000	120254	-4	4.49	120540	4.40
Blue	B	Alexa Fluor 488	27038	26636	-2	3.51	608	18.53
Blue	A	PerCP	20137	19897	-2	5.23	761	22.78
Red	C	Alexa Fluor 647	20177	20181	0	5.00	687	19.49
Red	B	APC-Alexa 700	53518	53336	-1	5.08	2635	9.49
Red	A	APC-Cy7	50002	49813	-1	6.42	2453	16.21
561 Yellow-Green	E	DsRed	95457	94971	-1	2.31	2437	7.73
561 Yellow-Green	D	PE-Texas Red	82387	81038	-2	2.67	1902	12.83
561 Yellow-Green	C	7-AAD	61828	60752	-2	3.52	2354	13.03
561 Yellow-Green	B	PE-Cy5-5	54739	53660	-2	4.08	2566	11.73
561 Yellow-Green	A	PE-Cy7	10496	9680	-8	5.32	445	15.37

Detector Settings (Continued)

Laser	Detector	Parameter	Dim Bead Median Channel	Dim Bead % Robust CV	PMTV	Δ PMTV	Qr	Br	P/F
Blue	FSC	FSC	20287	3.47	354	-5	N/A	N/A	Pass
Blue	C	SSC	58564	3.24	354	1	N/A	N/A	Pass
Blue	B	Alexa Fluor 488	108	59.00	602	1	0.0248	24	Pass
Blue	A	PerCP	98	74.96	632	8	0.0043	354	Pass
Red	C	Alexa Fluor 647	111	49.87	584	11	0.0092	74	Pass
Red	B	APC-Alexa 700	429	23.13	622	27	0.0089	1436	Pass
Red	A	APC-Cy7	397	42.09	688	38	0.0025	744	Pass
561 Yellow-Green	E	DsRed	538	17.77	641	1	0.6050	6	Pass
561 Yellow-Green	D	PE-Texas Red	392	29.80	622	1	0.0387	3	Pass
561 Yellow-Green	C	7-AAD	366	38.52	708	3	0.0433	92	Pass

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561 Yellow-Green	B	PE-Cy5-5	408	34.27	661	12	0.0273	296	Pass
561 Yellow-Green	A	PE-Cy7	76	37.53	475	16	0.0201	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	-75.52	-74.85	1.02
561 Yellow-Green	-38.75	-38.22	0.96
Blue	0.00	0.00	1.10

Window Extension: 2.00
FSC Area Scaling Factor: 0.92

Threshold

Threshold (FSC): 9601

Fluidics

Sheath Pressure: 24.81 Sample Pressure: 23.80
Nozzle Size: 100

Comments