

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: 06/28/2021 11:24 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	124446	-1	2.49	124350	2.49
Blue	C	SSC	125000	124934	-1	5.18	125230	5.13
Blue	B	Alexa Fluor 488	27038	26742	-2	4.27	611	19.22
Blue	A	PerCP	20137	20319	0	5.47	765	24.60
Red	C	Alexa Fluor 647	20177	19657	-3	6.03 (1)	663	20.05
Red	B	APC-Alexa 700	53518	52181	-3	5.50	2441	10.35
Red	A	APC-Cy7	50002	49184	-2	6.40	2244	16.79
561 Yellow-Green	E	DsRed	95457	95375	-1	2.35	2450	7.96
561 Yellow-Green	D	PE-Texas Red	82387	81470	-2	2.67	1913	12.79
561 Yellow-Green	C	7-AAD	61828	61272	-1	3.23	2337	13.43
561 Yellow-Green	B	PE-Cy5-5	54739	53800	-2	3.55	2475	11.59
561 Yellow-Green	A	PE-Cy7	10496	9844	-7	4.51	422	15.39

Detector Settings (Continued)

Laser	Detector	Parameter	Dim Bead Median Channel	Dim Bead % Robust CV	PMTV	Δ PMTV	Qr	Br	P/F
Blue	FSC	FSC	20154	4.92	372	13	N/A	N/A	Pass
Blue	C	SSC	59681	4.43	363	10	N/A	N/A	Pass
Blue	B	Alexa Fluor 488	106	55.98	616	15	0.0214	0	Pass
Blue	A	PerCP	94	83.50	641	17	0.0037	344	Pass
Red	C	Alexa Fluor 647	101	52.85	582	9	0.0090	84	Pass
Red	B	APC-Alexa 700	385	23.68	612	17	0.0071	0	Pass
Red	A	APC-Cy7	354	42.24	676	26	0.0024	183	Pass
561 Yellow-Green	E	DsRed	521	17.62	645	5	0.5419	0	Pass
561 Yellow-Green	D	PE-Texas Red	384	29.43	627	6	0.0384	0	Pass
561 Yellow-Green	C	7-AAD	356	38.06	710	5	0.0395	42	Pass

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561 Yellow-Green	B	PE-Cy5-5	372	35.26	660	11	0.0281	255	Pass
561 Yellow-Green	A	PE-Cy7	67	39.68	472	13	0.0208	0	Pass

(1) Bright Bead %Robust CV for Primary Channel, Detector C, for Red Laser is greater than recommended value.

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	-75.73	-75.32	1.01
561 Yellow-Green	-38.77	-38.40	0.95
Blue	0.00	0.00	1.09

Window Extension: 2.00
FSC Area Scaling Factor: 0.90

Threshold

Threshold (FSC): 11790

Fluidics

Sheath Pressure: 24.73 Sample Pressure: 23.80
Nozzle Size: 100

Comments