

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: 10/18/2021 11:05 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	122750	-2	2.77	122552	2.76
Blue	C	SSC	125000	124340	-1	3.93	124583	3.76
Blue	B	Alexa Fluor 488	27038	26876	-1	3.41	615	18.41
Blue	A	PerCP	20137	19978	-1	5.77	761	22.94
Red	C	Alexa Fluor 647	20177	19618	-3	4.45	673	18.94
Red	B	APC-Alexa 700	53518	52516	-2	5.63	2567	9.31
Red	A	APC-Cy7	50002	49694	-1	7.08	2393	16.18
561 Yellow-Green	E	DsRed	95457	95033	-1	2.28	2432	7.96
561 Yellow-Green	D	PE-Texas Red	82387	82227	-1	2.83	1924	12.63
561 Yellow-Green	C	7-AAD	61828	60886	-2	3.98	2366	12.90
561 Yellow-Green	B	PE-Cy5-5	54739	53110	-3	5.50	2512	11.98
561 Yellow-Green	A	PE-Cy7	10496	9843	-7	6.81	444	15.27

Detector Settings (Continued)

Laser	Detector	Parameter	Dim Bead Median Channel	Dim Bead % Robust CV	PMTV	Δ PMTV	Qr	Br	P/F
Blue	FSC	FSC	18411	5.32	405	46	N/A	N/A	Pass
Blue	C	SSC	59208	3.45	361	8	N/A	N/A	Pass
Blue	B	Alexa Fluor 488	106	55.23	612	11	0.0233	0	Pass
Blue	A	PerCP	96	77.35	641	17	0.0043	395	Pass
Red	C	Alexa Fluor 647	99	49.91	579	6	0.0094	37	Pass
Red	B	APC-Alexa 700	395	23.72	614	19	0.0117	2469	Pass
Red	A	APC-Cy7	371	42.30	683	33	0.0026	688	Pass
561 Yellow-Green	E	DsRed	518	17.71	643	3	0.5433	0	Pass
561 Yellow-Green	D	PE-Texas Red	378	29.13	624	3	0.0396	0	Pass
561 Yellow-Green	C	7-AAD	354	38.66	710	5	0.0451	90	Pass

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561 Yellow-Green	B	PE-Cy5-5	385	35.23	661	12	0.0303	359	Pass
561 Yellow-Green	A	PE-Cy7	72	39.02	476	17	0.0235	56	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	-76.89	-76.25	0.99
561 Yellow-Green	-39.49	-39.02	0.95
Blue	0.00	0.00	1.05

Window Extension: 2.00
FSC Area Scaling Factor: 0.95

Threshold

Threshold (FSC): 11247

Fluidics

Sheath Pressure: 24.74 Sample Pressure: 23.80
Nozzle Size: 100

Comments