

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: 02/22/2021 11:29 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	124567	-1	1.91	124448	1.91
Blue	C	SSC	125000	121933	-3	6.24	122254	6.3
Blue	B	Alexa Fluor 488	27038	26696	-2	5.1	611	18.23
Blue	A	PerCP	20137	20114	-1	6.11	726	23.6
Red	C	Alexa Fluor 647	20177	19741	-3	4.5	669	18.16
Red	B	APC-Alexa 700	53518	52299	-3	5.84	2197	8.99
Red	A	APC-Cy7	50002	49447	-2	7.01	1938	14.74
561 Yellow-Green	E	DsRed	95457	94497	-2	3.52	2421	8.27
561 Yellow-Green	D	PE-Texas Red	82387	81910	-1	3.64	1919	12.76
561 Yellow-Green	C	7-AAD	61828	61431	-1	4.35	2303	13.07
561 Yellow-Green	B	PE-Cy5-5	54739	53572	-3	5.49	2264	11.39
561 Yellow-Green	A	PE-Cy7	10496	9752	-8	7.44	356	15.35

Detector Settings (Continued)

Laser	Detector	Parameter	Dim Bead Median Channel	Dim Bead % Robust CV	PMTV	Δ PMTV	Qr	Br	P/F
Blue	FSC	FSC	20512	3.6	360	1	N/A	N/A	Pass
Blue	C	SSC	58793	5.76	356	3	N/A	N/A	Pass
Blue	B	Alexa Fluor 488	107	54.05	607	6	0.0254	0	Pass
Blue	A	PerCP	90	76.88	627	3	0.0042	280	Pass
Red	C	Alexa Fluor 647	106	47.04	570	-3	0.0106	73	Pass
Red	B	APC-Alexa 700	339	22.84	589	-6	0.0181	2392	Pass
Red	A	APC-Cy7	297	39.37	648	-2	0.0043	667	Pass
561 Yellow-Green	E	DsRed	522	17.91	641	1	0.5749	0	Pass
561 Yellow-Green	D	PE-Texas Red	389	28.84	622	1	0.0403	0	Pass
561 Yellow-Green	C	7-AAD	343	38.11	706	1	0.0459	68	Pass

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561 Yellow-Green	B	PE-Cy5-5	344	33.41	647	-2	0.0394	311	Pass
561 Yellow-Green	A	PE-Cy7	57	40.21	456	-3	0.0310	62	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	-74.95	-74.50	1.02
561 Yellow-Green	-38.30	-37.98	0.97
Blue	0.00	0.00	1.12

Window Extension: 2.00
FSC Area Scaling Factor: 0.94

Threshold

Threshold (FSC): 11336

Fluidics

Sheath Pressure: 24.75 Sample Pressure: 23.75
Nozzle Size: 100

Comments