

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: 09/13/2021 10:41 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	124504	-1	2.22	124389	2.23
Blue	C	SSC	125000	125185	0	3.56	125428	3.49
Blue	B	Alexa Fluor 488	27038	27062	0	3.09	624	18.44
Blue	A	PerCP	20137	20314	0	5.87	757	23.41
Red	C	Alexa Fluor 647	20177	19940	-2	4.16	683	19.18
Red	B	APC-Alexa 700	53518	52387	-3	4.70	2355	9.25
Red	A	APC-Cy7	50002	49832	-1	6.15	2155	16.05
561 Yellow-Green	E	DsRed	95457	94549	-1	2.44	2424	7.95
561 Yellow-Green	D	PE-Texas Red	82387	81167	-2	3.13	1908	13.01
561 Yellow-Green	C	7-AAD	61828	61003	-2	4.47	2319	13.33
561 Yellow-Green	B	PE-Cy5-5	54739	53442	-3	5.95	2383	12.08
561 Yellow-Green	A	PE-Cy7	10496	9844	-7	6.79	398	15.64

Detector Settings (Continued)

Laser	Detector	Parameter	Dim Bead Median Channel	Dim Bead % Robust CV	PMTV	Δ PMTV	Qr	Br	P/F
Blue	FSC	FSC	19180	5.19	408	49	N/A	N/A	Pass
Blue	C	SSC	57923	3.59	364	11	N/A	N/A	Pass
Blue	B	Alexa Fluor 488	105	54.31	618	17	0.0223	0	Pass
Blue	A	PerCP	92	79.18	640	16	0.0042	330	Pass
Red	C	Alexa Fluor 647	105	48.95	581	8	0.0091	19	Pass
Red	B	APC-Alexa 700	361	22.81	607	12	0.0097	386	Pass
Red	A	APC-Cy7	327	41.33	670	20	0.0028	164	Pass
561 Yellow-Green	E	DsRed	514	17.91	646	6	0.5559	0	Pass
561 Yellow-Green	D	PE-Texas Red	388	28.85	627	6	0.0372	0	Pass
561 Yellow-Green	C	7-AAD	348	37.83	711	6	0.0431	52	Pass

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561 Yellow-Green	B	PE-Cy5-5	364	34.24	656	7	0.0326	281	Pass
561 Yellow-Green	A	PE-Cy7	65	39.25	468	9	0.0245	21	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	-76.12	-75.91	0.99
561 Yellow-Green	-38.88	-38.73	0.96
Blue	0.00	0.00	1.05

Window Extension: 2.00
FSC Area Scaling Factor: 0.96

Threshold

Threshold (FSC): 10547

Fluidics

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

Comments