

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: 08/12/2019 11:20 AM
 Cytometer Baseline: 07/08/2019 01:54 PM
 P/F: Pass

Setup Beads

Bead Product: CST Setup Beads Part #: 910858
 Lot ID: 72518 Expiration Date: 09/30/2019
 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	125292	0	2.47	125420	2.52
Blue	C	SSC	125000	123007	-2	2.85	124110	2.93
Blue	B	Alexa Fluor 488	24509	24148	-2	3.11	601	16.76
Blue	A	PerCP	28083	27886	-1	5.12	804	22.52
Red	C	Alexa Fluor 647	27476	27186	-2	3.83	719	18.75
Red	B	APC-Alexa 700	71237	69621	-3	5.59	2364	8.46
Red	A	APC-Cy7	63557	62147	-3	6.89	1946	14.10
561 Yellow-Green	E	DsRed	87567	87283	-1	2.42	2152	7.77
561 Yellow-Green	D	PE-Texas Red	65512	65372	-1	2.92	1485	12.36
561 Yellow-Green	C	7-AAD	69736	69435	-1	3.39	2183	12.25
561 Yellow-Green	B	PE-Cy5-5	63787	63165	-1	5.07	2167	10.48
561 Yellow-Green	A	PE-Cy7	18452	17338	-7	7.39	511	13.13

Detector Settings (Continued)

Laser	Detector	Parameter	Dim Bead Median Channel	Dim Bead % Robust CV	PMTV	Δ PMTV	Qr	Br	P/F
Blue	FSC	FSC	17242	4.66	342	-23	N/A	N/A	Pass
Blue	C	SSC	58636	2.98	353	-6	N/A	N/A	Pass
Blue	B	Alexa Fluor 488	96	52.95	590	-18	0.0243	0	Pass
Blue	A	PerCP	115	68.20	627	-18	0.0043	335	Pass
Red	C	Alexa Fluor 647	120	46.89	580	-1	0.0102	55	Pass
Red	B	APC-Alexa 700	342	20.60	581	-2	0.0165	2485	Pass
Red	A	APC-Cy7	274	37.48	636	-2	0.0036	573	Pass
561 Yellow-Green	E	DsRed	487	16.24	626	-2	0.5334	0	Pass
561 Yellow-Green	D	PE-Texas Red	309	28.01	594	-2	0.0390	0	Pass
561 Yellow-Green	C	7-AAD	345	33.28	691	-1	0.0426	42	Pass

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561 Yellow-Green	B	PE-Cy5-5	310	30.33	622	-2	0.0366	300	Pass
561 Yellow-Green	A	PE-Cy7	71	35.50	459	-4	0.0362	105	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	-71.87	-71.11	1.03
561 Yellow-Green	-37.42	-36.58	1.01
Blue	0.00	0.00	1.15

Window Extension: 2.00
FSC Area Scaling Factor: 0.95

Threshold

Threshold (FSC): 11378

Fluidics

Sheath Pressure: 24.73 Sample Pressure: 23.77
Nozzle Size: 100

Comments