

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: 12/07/2020 10:57 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	122850	-2	1.16	122782	1.22
Blue	C	SSC	125000	121891	-3	3.57	122277	3.49
Blue	B	Alexa Fluor 488	27038	26392	-3	2.75	612	16.80
Blue	A	PerCP	20137	20122	-1	4.76	724	22.00
Red	C	Alexa Fluor 647	20177	19968	-2	3.58	683	17.62
Red	B	APC-Alexa 700	53518	52717	-2	3.84	2177	8.29
Red	A	APC-Cy7	50002	49887	-1	5.18	1913	14.47
561 Yellow-Green	E	DsRed	95457	94994	-1	2.55	2445	7.67
561 Yellow-Green	D	PE-Texas Red	82387	81878	-1	2.77	1932	12.32
561 Yellow-Green	C	7-AAD	61828	60768	-2	3.46	2260	12.54
561 Yellow-Green	B	PE-Cy5-5	54739	54096	-2	4.26	2258	11.24
561 Yellow-Green	A	PE-Cy7	10496	9790	-7	5.97	350	14.83

Detector Settings (Continued)

Laser	Detector	Parameter	Dim Bead Median Channel	Dim Bead % Robust CV	PMTV	Δ PMTV	Qr	Br	P/F
Blue	FSC	FSC	19667	2.05	351	-8	N/A	N/A	Pass
Blue	C	SSC	58564	2.58	355	2	N/A	N/A	Pass
Blue	B	Alexa Fluor 488	109	49.92	598	-3	0.0278	0	Pass
Blue	A	PerCP	91	72.32	622	-2	0.0048	298	Pass
Red	C	Alexa Fluor 647	106	45.18	571	-2	0.0108	32	Pass
Red	B	APC-Alexa 700	329	21.44	590	-5	0.0133	204	Pass
Red	A	APC-Cy7	286	39.43	648	-2	0.0039	285	Pass
561 Yellow-Green	E	DsRed	529	16.62	640	0	0.6002	0	Pass
561 Yellow-Green	D	PE-Texas Red	396	27.68	620	-1	0.0412	0	Pass
561 Yellow-Green	C	7-AAD	347	35.72	701	-4	0.0478	47	Pass

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561 Yellow-Green	B	PE-Cy5-5	343	32.34	645	-4	0.0347	166	Pass
561 Yellow-Green	A	PE-Cy7	55	39.02	454	-5	0.0303	18	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	-74.86	-74.31	1.02
561 Yellow-Green	-38.25	-37.87	0.97
Blue	0.00	0.00	1.12

Window Extension: 2.00
FSC Area Scaling Factor: 0.94

Threshold

Threshold (FSC): 12380

Fluidics

Sheath Pressure: 24.84 Sample Pressure: 23.71
Nozzle Size: 100

Comments