

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: 08/03/2020 10:36 AM
Cytometer Baseline: 01/06/2020 04:02 PM
P/F: Pass

Setup Beads

Bead Product: CST Setup Beads **Part #:** 910858
Lot ID: 83326 **Expiration Date:** 11/30/2020
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	123100	-2	2.69	123216	2.69
Blue	C	SSC	125000	123331	-2	4.93	124235	5.03
Blue	B	Alexa Fluor 488	29683	29500	-1	4.05	734	19.68
Blue	A	PerCP	28186	28529	1	6.14	853	29.93
Red	C	Alexa Fluor 647	20935	21558	2	4.66	609	20.31
Red	B	APC-Alexa 700	64225	65685	2	4.57	2040	9.79
Red	A	APC-Cy7	56829	58463	2	5.78	1665	17.01
561 Yellow-Green	E	DsRed	99854	99316	-1	1.49	2430	7.65
561 Yellow-Green	D	PE-Texas Red	76183	75974	-1	1.98	1692	12.81
561 Yellow-Green	C	7-AAD	75562	75812	0	2.68	2336	13.48
561 Yellow-Green	B	PE-Cy5-5	59959	59372	-1	3.55	1956	11.60
561 Yellow-Green	A	PE-Cy7	13836	13254	-5	4.92	364	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	15522	8.24	434	11	N/A	N/A	Pass
Blue	C	SSC	57035	5.18	382	18	N/A	N/A	Pass
Blue	B	Alexa Fluor 488	116	60.46	650	16	0.0173	0	Pass
Blue	A	PerCP	130	92.82	683	18	0.0028	436	Pass
Red	C	Alexa Fluor 647	116	47.29	582	3	0.0097	50	Pass
Red	B	APC-Alexa 700	502	19.27	605	3	0.0093	472	Pass
Red	A	APC-Cy7	418	34.57	661	5	0.0029	255	Pass
561 Yellow-Green	E	DsRed	531	17.64	644	-3	0.5514	0	Pass
561 Yellow-Green	D	PE-Texas Red	352	29.07	612	-4	0.0361	0	Pass
561 Yellow-Green	C	7-AAD	484	32.38	716	-7	0.0378	17	Pass

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561 Yellow-Green	B	PE-Cy5-5	443	27.60	637	-9	0.0323	261	Pass
561 Yellow-Green	A	PE-Cy7	89	30.96	461	-6	0.0264	0	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	-73.75	-73.09	1.01
561 Yellow-Green	-38.39	-37.75	0.99
Blue	0.00	0.00	1.13

Window Extension: 2.00
FSC Area Scaling Factor: 1.01

Threshold

Threshold (FSC): 9670

Fluidics

Sheath Pressure: 24.80 Sample Pressure: 23.73
Nozzle Size: 100

Comments