

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: 06/14/2021 03:13 PM
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	124844	-1	1.68	124680	1.62
Blue	C	SSC	125000	123835	-1	4.17	124164	3.96
Blue	B	Alexa Fluor 488	27038	26943	-1	3.13	614	18.37
Blue	A	PerCP	20137	20246	0	5.23	784	22.83
Red	C	Alexa Fluor 647	20177	19799	-2	4.52	675	19.09
Red	B	APC-Alexa 700	53518	51443	-4	4.86	2683	9.55
Red	A	APC-Cy7	50002	48712	-3	6.23	2563	16.25
561 Yellow-Green	E	DsRed	95457	95122	-1	1.85	2441	7.63
561 Yellow-Green	D	PE-Texas Red	82387	81857	-1	2.31	1918	12.45
561 Yellow-Green	C	7-AAD	61828	60674	-2	3.48	2367	13.04
561 Yellow-Green	B	PE-Cy5-5	54739	53455	-3	4.30	2651	12.12
561 Yellow-Green	A	PE-Cy7	10496	9641	-9	5.96	469	15.73

Detector Settings (Continued)

Laser	Detector	Parameter	Dim Bead Median Channel	Dim Bead % Robust CV	PMTV	Δ PMTV	Qr	Br	P/F
Blue	FSC	FSC	18578	3.81	402	43	N/A	N/A	Pass
Blue	C	SSC	60352	2.92	359	6	N/A	N/A	Pass
Blue	B	Alexa Fluor 488	109	54.31	609	8	0.0235	0	Pass
Blue	A	PerCP	100	75.74	639	15	0.0042	361	Pass
Red	C	Alexa Fluor 647	106	49.42	580	7	0.0094	58	Pass
Red	B	APC-Alexa 700	443	21.95	620	25	0.0076	464	Pass
Red	A	APC-Cy7	426	40.75	688	38	0.0022	549	Pass
561 Yellow-Green	E	DsRed	517	17.57	643	3	0.5846	0	Pass
561 Yellow-Green	D	PE-Texas Red	388	29.29	625	4	0.0407	0	Pass
561 Yellow-Green	C	7-AAD	362	39.22	712	7	0.0431	98	Pass

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561 Yellow-Green	B	PE-Cy5-5	404	36.19	668	19	0.0246	302	Pass
561 Yellow-Green	A	PE-Cy7	78	37.97	481	22	0.0185	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	-75.58	-75.10	1.01
561 Yellow-Green	-38.89	-38.36	0.96
Blue	0.00	0.00	1.09

Window Extension: 2.00
FSC Area Scaling Factor: 0.98

Threshold

Threshold (FSC): 9538

Fluidics

Sheath Pressure: 24.91 Sample Pressure: 23.80
Nozzle Size: 100

Comments