

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: 06/07/2021 01:55 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	123971	-1	2.64	123807	2.68
Blue	C	SSC	125000	121171	-4	5.88	121595	5.56
Blue	B	Alexa Fluor 488	27038	26593	-2	4.60	605	18.84
Blue	A	PerCP	20137	20052	-1	6.29	766	23.58
Red	C	Alexa Fluor 647	20177	19525	-4	5.62	665	19.45
Red	B	APC-Alexa 700	53518	51627	-4	6.55	2527	10.47
Red	A	APC-Cy7	50002	48935	-3	7.75	2375	16.65
561 Yellow-Green	E	DsRed	95457	94119	-2	2.65	2417	8.08
561 Yellow-Green	D	PE-Texas Red	82387	81511	-2	2.86	1912	12.73
561 Yellow-Green	C	7-AAD	61828	60854	-2	3.86	2348	13.32
561 Yellow-Green	B	PE-Cy5-5	54739	53588	-3	4.50	2535	12.00
561 Yellow-Green	A	PE-Cy7	10496	9694	-8	5.99	438	15.83

Detector Settings (Continued)

Laser	Detector	Parameter	Dim Bead Median Channel	Dim Bead % Robust CV	PMTV	Δ PMTV	Qr	Br	P/F
Blue	FSC	FSC	19115	6.17	401	42	N/A	N/A	Pass
Blue	C	SSC	58752	4.96	357	4	N/A	N/A	Pass
Blue	B	Alexa Fluor 488	105	57.14	607	6	0.0235	0	Pass
Blue	A	PerCP	96	79.18	636	12	0.0041	388	Pass
Red	C	Alexa Fluor 647	106	50.35	579	6	0.0094	89	Pass
Red	B	APC-Alexa 700	408	23.68	614	19	0.0085	1030	Pass
Red	A	APC-Cy7	384	41.03	680	30	0.0025	485	Pass
561 Yellow-Green	E	DsRed	514	17.88	641	1	0.5416	0	Pass
561 Yellow-Green	D	PE-Texas Red	381	30.02	624	3	0.0396	1	Pass
561 Yellow-Green	C	7-AAD	360	38.05	710	5	0.0413	60	Pass

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561 Yellow-Green	B	PE-Cy5-5	390	34.80	662	13	0.0266	247	Pass
561 Yellow-Green	A	PE-Cy7	72	39.02	474	15	0.0199	1	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	-75.78	-75.32	1.00
561 Yellow-Green	-38.80	-38.34	0.95
Blue	0.00	0.00	1.10

Window Extension: 2.00
FSC Area Scaling Factor: 0.99

Threshold

Threshold (FSC): 10897

Fluidics

Sheath Pressure: 24.74 Sample Pressure: 23.80
Nozzle Size: 100

Comments