

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: 02/08/2021 02:37 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	125499	0	2.01	125450	2.04
Blue	C	SSC	125000	121751	-3	5.24	122163	4.92
Blue	B	Alexa Fluor 488	27038	26677	-2	3.96	612	17.82
Blue	A	PerCP	20137	20257	0	5.47	738	22.62
Red	C	Alexa Fluor 647	20177	19962	-2	3.99	678	17.67
Red	B	APC-Alexa 700	53518	52694	-2	4.67	2288	8.48
Red	A	APC-Cy7	50002	49567	-1	6.02	2033	14.77
561 Yellow-Green	E	DsRed	95457	94935	-1	2.96	2435	8.16
561 Yellow-Green	D	PE-Texas Red	82387	81607	-1	3.22	1917	12.45
561 Yellow-Green	C	7-AAD	61828	61318	-1	3.97	2297	13.07
561 Yellow-Green	B	PE-Cy5-5	54739	53996	-2	4.75	2331	11.59
561 Yellow-Green	A	PE-Cy7	10496	9696	-8	6.76	369	15.10

Detector Settings (Continued)

Laser	Detector	Parameter	Dim Bead Median Channel	Dim Bead % Robust CV	PMTV	Δ PMTV	Qr	Br	P/F
Blue	FSC	FSC	20894	5.06	359	0	N/A	N/A	Pass
Blue	C	SSC	59324	4.06	356	3	N/A	N/A	Pass
Blue	B	Alexa Fluor 488	107	55.60	602	1	0.0265	0	Pass
Blue	A	PerCP	92	75.02	628	4	0.0046	318	Pass
Red	C	Alexa Fluor 647	107	46.60	570	-3	0.0112	90	Pass
Red	B	APC-Alexa 700	358	22.03	592	-3	0.0150	1644	Pass
Red	A	APC-Cy7	313	39.25	652	2	0.0037	454	Pass
561 Yellow-Green	E	DsRed	527	17.89	642	2	0.5512	0	Pass
561 Yellow-Green	D	PE-Texas Red	392	29.51	622	1	0.0426	24	Pass
561 Yellow-Green	C	7-AAD	352	37.78	705	0	0.0450	67	Pass

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561 Yellow-Green	B	PE-Cy5-5	357	34.77	650	1	0.0338	309	Pass
561 Yellow-Green	A	PE-Cy7	58	38.89	460	1	0.0287	26	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	-75.39	-74.83	1.02
561 Yellow-Green	-38.63	-38.11	0.96
Blue	0.00	0.00	1.12

Window Extension: 2.00
FSC Area Scaling Factor: 0.94

Threshold

Threshold (FSC): 11780

Fluidics

Sheath Pressure: 24.74 Sample Pressure: 23.71
Nozzle Size: 100

Comments