

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: 04/12/2021 10:46 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	124620	-1	1.46	124562	1.45
Blue	C	SSC	125000	121331	-3	4.25	121588	4.13
Blue	B	Alexa Fluor 488	27038	26852	-1	3.09	617	18.13
Blue	A	PerCP	20137	20059	-1	5.00	754	22.49
Red	C	Alexa Fluor 647	20177	20070	-1	4.60	683	19.05
Red	B	APC-Alexa 700	53518	52257	-3	5.41	2479	9.12
Red	A	APC-Cy7	50002	49620	-1	6.74	2301	15.42
561 Yellow-Green	E	DsRed	95457	95349	-1	2.07	2450	7.77
561 Yellow-Green	D	PE-Texas Red	82387	81927	-1	2.44	1926	12.34
561 Yellow-Green	C	7-AAD	61828	60916	-2	3.27	2336	12.81
561 Yellow-Green	B	PE-Cy5-5	54739	54025	-2	4.40	2493	11.49
561 Yellow-Green	A	PE-Cy7	10496	9632	-9	6.60	415	15.52

Detector Settings (Continued)

Laser	Detector	Parameter	Dim Bead Median Channel	Dim Bead % Robust CV	PMTV	Δ PMTV	Qr	Br	P/F
Blue	FSC	FSC	20455	2.84	355	-4	N/A	N/A	Pass
Blue	C	SSC	59187	2.84	355	2	N/A	N/A	Pass
Blue	B	Alexa Fluor 488	107	56.55	603	2	0.0247	0	Pass
Blue	A	PerCP	95	75.85	631	7	0.0045	375	Pass
Red	C	Alexa Fluor 647	110	48.97	580	7	0.0095	68	Pass
Red	B	APC-Alexa 700	398	22.90	612	17	0.0125	2467	Pass
Red	A	APC-Cy7	366	40.84	676	26	0.0031	937	Pass
561 Yellow-Green	E	DsRed	538	17.30	641	1	0.5662	0	Pass
561 Yellow-Green	D	PE-Texas Red	398	28.72	622	1	0.0415	2	Pass
561 Yellow-Green	C	7-AAD	364	37.36	708	3	0.0445	75	Pass

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561 Yellow-Green	B	PE-Cy5-5	389	35.32	658	9	0.0319	412	Pass
561 Yellow-Green	A	PE-Cy7	69	37.07	469	10	0.0227	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	-75.38	-74.71	1.01
561 Yellow-Green	-38.66	-38.06	0.97
Blue	0.00	0.00	1.11

Window Extension: 2.00
FSC Area Scaling Factor: 0.93

Threshold

Threshold (FSC): 11191

Fluidics

Sheath Pressure: 24.79 Sample Pressure: 23.74
Nozzle Size: 100

Comments