

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: 05/10/2021 02:07 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	123892	-1	2.16	123836	2.13
Blue	C	SSC	125000	122128	-3	5.17	122437	5.22
Blue	B	Alexa Fluor 488	27038	26901	-1	4.00	614	18.20
Blue	A	PerCP	20137	19927	-2	5.86	744	22.86
Red	C	Alexa Fluor 647	20177	19787	-2	6.00	672	19.69
Red	B	APC-Alexa 700	53518	52291	-3	7.35	2384	10.48
Red	A	APC-Cy7	50002	49067	-2	8.09	2158	16.47
561 Yellow-Green	E	DsRed	95457	94187	-2	2.33	2420	7.76
561 Yellow-Green	D	PE-Texas Red	82387	81589	-1	2.61	1916	12.24
561 Yellow-Green	C	7-AAD	61828	61122	-2	3.72	2326	13.08
561 Yellow-Green	B	PE-Cy5-5	54739	53164	-3	4.31	2389	11.73
561 Yellow-Green	A	PE-Cy7	10496	9615	-9	5.53	393	15.19

Detector Settings (Continued)

Laser	Detector	Parameter	Dim Bead Median Channel	Dim Bead % Robust CV	PMTV	Δ PMTV	Qr	Br	P/F
Blue	FSC	FSC	19326	2.55	358	-1	N/A	N/A	Pass
Blue	C	SSC	59080	3.85	356	3	N/A	N/A	Pass
Blue	B	Alexa Fluor 488	108	58.41	605	4	0.0263	26	Pass
Blue	A	PerCP	94	74.13	630	6	0.0044	292	Pass
Red	C	Alexa Fluor 647	107	48.50	579	6	0.0091	23	Pass
Red	B	APC-Alexa 700	380	23.47	609	14	0.0122	1802	Pass
Red	A	APC-Cy7	343	40.75	670	20	0.0030	451	Pass
561 Yellow-Green	E	DsRed	532	17.36	639	-1	0.5872	0	Pass
561 Yellow-Green	D	PE-Texas Red	397	28.29	622	1	0.0424	0	Pass
561 Yellow-Green	C	7-AAD	363	37.95	705	0	0.0439	78	Pass

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561 Yellow-Green	B	PE-Cy5-5	367	34.84	652	3	0.0298	269	Pass
561 Yellow-Green	A	PE-Cy7	65	37.07	464	5	0.0235	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	-75.54	-74.94	1.00
561 Yellow-Green	-38.73	-38.15	0.96
Blue	0.00	0.00	1.09

Window Extension: 2.00
FSC Area Scaling Factor: 0.91

Threshold

Threshold (FSC): 10702

Fluidics

Sheath Pressure: 24.75 Sample Pressure: 23.80
Nozzle Size: 100

Comments