

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: 07/19/2021 11:10 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	125054	0	2.70	124912	2.70
Blue	C	SSC	125000	126470	1	5.01	126919	4.91
Blue	B	Alexa Fluor 488	27038	26860	-1	3.91	616	18.63
Blue	A	PerCP	20137	20194	0	5.87	719	22.44
Red	C	Alexa Fluor 647	20177	19975	-2	4.22	674	18.48
Red	B	APC-Alexa 700	53518	53006	-1	3.85	2127	9.30
Red	A	APC-Cy7	50002	49846	-1	4.93	1842	15.68
561 Yellow-Green	E	DsRed	95457	94845	-1	2.12	2447	7.76
561 Yellow-Green	D	PE-Texas Red	82387	82343	-1	2.66	1944	12.54
561 Yellow-Green	C	7-AAD	61828	61524	-1	3.75	2291	12.87
561 Yellow-Green	B	PE-Cy5-5	54739	54422	-1	4.17	2231	11.63
561 Yellow-Green	A	PE-Cy7	10496	9975	-5	4.90	346	15.56

Detector Settings (Continued)

Laser	Detector	Parameter	Dim Bead Median Channel	Dim Bead % Robust CV	PMTV	Δ PMTV	Qr	Br	P/F
Blue	FSC	FSC	18838	4.52	402	43	N/A	N/A	Pass
Blue	C	SSC	58602	4.78	360	7	N/A	N/A	Pass
Blue	B	Alexa Fluor 488	106	53.78	611	10	0.0223	0	Pass
Blue	A	PerCP	88	75.00	630	6	0.0048	318	Pass
Red	C	Alexa Fluor 647	103	49.42	578	5	0.0102	85	Pass
Red	B	APC-Alexa 700	320	23.79	599	4	0.0092	0	Pass
Red	A	APC-Cy7	275	42.51	655	5	0.0033	174	Pass
561 Yellow-Green	E	DsRed	515	17.60	643	3	0.5659	0	Pass
561 Yellow-Green	D	PE-Texas Red	388	29.94	625	4	0.0405	11	Pass
561 Yellow-Green	C	7-AAD	336	37.91	704	-1	0.0460	56	Pass

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561 Yellow-Green	B	PE-Cy5-5	331	34.18	646	-3	0.0323	164	Pass
561 Yellow-Green	A	PE-Cy7	54	39.02	456	-3	0.0255	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	-76.28	-75.98	0.99
561 Yellow-Green	-39.12	-38.79	0.96
Blue	0.00	0.00	1.05

Window Extension: 2.00
FSC Area Scaling Factor: 0.95

Threshold

Threshold (FSC): 12719

Fluidics

Sheath Pressure: 24.76 Sample Pressure: 23.80
Nozzle Size: 100

Comments