

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: 07/26/2021 02:27 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	124551	-1	2.66	124624	2.58
Blue	C	SSC	125000	125333	0	3.62	125844	3.52
Blue	B	Alexa Fluor 488	27038	26840	-1	3.27	615	18.66
Blue	A	PerCP	20137	20214	0	5.65	735	23.02
Red	C	Alexa Fluor 647	20177	19798	-2	4.37	673	18.91
Red	B	APC-Alexa 700	53518	53027	-1	3.86	2231	9.39
Red	A	APC-Cy7	50002	49670	-1	4.93	1952	15.31
561 Yellow-Green	E	DsRed	95457	94839	-1	2.48	2438	7.88
561 Yellow-Green	D	PE-Texas Red	82387	81824	-1	3.11	1920	12.50
561 Yellow-Green	C	7-AAD	61828	61138	-2	4.19	2291	13.13
561 Yellow-Green	B	PE-Cy5-5	54739	54217	-1	4.73	2292	11.83
561 Yellow-Green	A	PE-Cy7	10496	9788	-7	5.32	359	15.73

Detector Settings (Continued)

Laser	Detector	Parameter	Dim Bead Median Channel	Dim Bead % Robust CV	PMTV	Δ PMTV	Qr	Br	P/F
Blue	FSC	FSC	18800	4.73	404	45	N/A	N/A	Pass
Blue	C	SSC	58386	3.38	362	9	N/A	N/A	Pass
Blue	B	Alexa Fluor 488	106	53.78	614	13	0.0218	0	Pass
Blue	A	PerCP	90	79.30	634	10	0.0045	371	Pass
Red	C	Alexa Fluor 647	103	49.42	579	6	0.0096	53	Pass
Red	B	APC-Alexa 700	331	23.46	602	7	0.0084	0	Pass
Red	A	APC-Cy7	290	41.86	660	10	0.0033	262	Pass
561 Yellow-Green	E	DsRed	505	17.87	643	3	0.5674	0	Pass
561 Yellow-Green	D	PE-Texas Red	373	30.26	624	3	0.0419	14	Pass
561 Yellow-Green	C	7-AAD	335	37.91	705	0	0.0444	47	Pass

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561 Yellow-Green	B	PE-Cy5-5	340	34.05	649	0	0.0312	162	Pass
561 Yellow-Green	A	PE-Cy7	55	40.90	458	-1	0.0243	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	-76.47	-76.09	0.99
561 Yellow-Green	-39.24	-39.01	0.95
Blue	0.00	0.00	1.05

Window Extension: 2.00
FSC Area Scaling Factor: 0.96

Threshold

Threshold (FSC): 11440

Fluidics

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

Comments