

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: 06/21/2021 02:55 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	124190	-1	2.71	124091	2.79
Blue	C	SSC	125000	123044	-2	4.95	123303	4.89
Blue	B	Alexa Fluor 488	27038	26601	-2	4.16	612	19.87
Blue	A	PerCP	20137	20174	0	5.35	729	23.94
Red	C	Alexa Fluor 647	20177	19864	-2	5.85	664	20.29
Red	B	APC-Alexa 700	53518	52280	-3	5.18	2151	10.39
Red	A	APC-Cy7	50002	49376	-2	5.98	1905	16.55
561 Yellow-Green	E	DsRed	95457	95523	0	2.34	2468	8.14
561 Yellow-Green	D	PE-Texas Red	82387	81909	-1	2.75	1935	12.82
561 Yellow-Green	C	7-AAD	61828	61625	-1	3.33	2303	13.16
561 Yellow-Green	B	PE-Cy5-5	54739	53721	-2	3.63	2255	11.66
561 Yellow-Green	A	PE-Cy7	10496	9884	-6	4.28	358	14.94

Detector Settings (Continued)

Laser	Detector	Parameter	Dim Bead Median Channel	Dim Bead % Robust CV	PMTV	Δ PMTV	Qr	Br	P/F
Blue	FSC	FSC	20102	5.98	370	11	N/A	N/A	Pass
Blue	C	SSC	58856	5.05	363	10	N/A	N/A	Pass
Blue	B	Alexa Fluor 488	105	59.00	618	17	0.0198	0	Pass
Blue	A	PerCP	87	86.03	634	10	0.0041	423	Pass
Red	C	Alexa Fluor 647	103	51.32	583	10	0.0087	37	Pass
Red	B	APC-Alexa 700	325	25.47	600	5	0.0077	16	Pass
Red	A	APC-Cy7	285	43.54	659	9	0.0029	126	Pass
561 Yellow-Green	E	DsRed	527	18.43	648	8	0.5213	0	Pass
561 Yellow-Green	D	PE-Texas Red	387	30.16	629	8	0.0386	2	Pass
561 Yellow-Green	C	7-AAD	347	38.59	707	2	0.0429	61	Pass

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561 Yellow-Green	B	PE-Cy5-5	337	35.08	649	0	0.0304	194	Pass
561 Yellow-Green	A	PE-Cy7	56	40.21	459	0	0.0266	7	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	-75.96	-75.43	1.00
561 Yellow-Green	-38.83	-38.45	0.95
Blue	0.00	0.00	1.08

Window Extension: 2.00
FSC Area Scaling Factor: 0.89

Threshold

Threshold (FSC): 9610

Fluidics

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

Comments