

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: 11/30/2021 10:23 AM
Cytometer Baseline: 11/02/2021 10:54 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	122759	-2	2.79	122617	2.79
Blue	C	SSC	125000	124191	-1	4.17	124507	3.95
Blue	B	Alexa Fluor 488	35799	35287	-2	3.51	812	17.13
Blue	A	PerCP	17712	17455	-2	5.27	637	23.83
Red	C	Alexa Fluor 647	19450	19058	-3	4.59	647	19.07
Red	B	APC-Alexa 700	70881	69411	-3	4.19	3062	9.12
Red	A	APC-Cy7	61146	59737	-3	5.20	2523	15.61
561 Yellow-Green	E	DsRed	118653	118137	-1	2.22	3046	7.65
561 Yellow-Green	D	PE-Texas Red	101436	101677	0	2.66	2388	12.44
561 Yellow-Green	C	7-AAD	78717	77998	-1	3.32	2938	13.13
561 Yellow-Green	B	PE-Cy5-5	67052	65847	-2	3.72	2889	11.57
561 Yellow-Green	A	PE-Cy7	9927	9206	-8	4.66	363	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	19007	6.02	399	-1	N/A	N/A	Pass
Blue	C	SSC	59319	3.76	359	0	N/A	N/A	Pass
Blue	B	Alexa Fluor 488	143	50.16	631	-6	0.0270	0	Pass
Blue	A	PerCP	80	79.07	622	-7	0.0040	323	Pass
Red	C	Alexa Fluor 647	101	47.97	577	-1	0.0094	15	Pass
Red	B	APC-Alexa 700	476	22.19	631	-1	0.0093	0	Pass
Red	A	APC-Cy7	383	40.61	684	-7	0.0029	39	Pass
561 Yellow-Green	E	DsRed	657	16.74	662	-2	0.5844	0	Pass
561 Yellow-Green	D	PE-Texas Red	484	28.59	643	0	0.0407	0	Pass
561 Yellow-Green	C	7-AAD	446	37.47	731	-4	0.0423	44	Pass

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561 Yellow-Green	B	PE-Cy5-5	434	33.86	670	-8	0.0293	165	Pass
561 Yellow-Green	A	PE-Cy7	58	38.89	461	-9	0.0215	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	-76.54	-76.13	0.99
561 Yellow-Green	-39.32	-38.91	0.96
Blue	0.00	0.00	1.08

Window Extension: 2.00
FSC Area Scaling Factor: 0.98

Threshold

Threshold (FSC): 11957

Fluidics

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

Comments