

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: 10/25/2021 10:53 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	124107	-1	2.55	124056	2.55
Blue	C	SSC	125000	125230	0	4.55	125731	4.52
Blue	B	Alexa Fluor 488	27038	26784	-1	3.79	621	19.46
Blue	A	PerCP	20137	20271	0	5.13	725	23.35
Red	C	Alexa Fluor 647	20177	19815	-2	4.17	670	18.59
Red	B	APC-Alexa 700	53518	52559	-2	3.29	2171	9.45
Red	A	APC-Cy7	50002	50026	0	4.18	1922	15.55
561 Yellow-Green	E	DsRed	95457	94769	-1	2.10	2444	8.01
561 Yellow-Green	D	PE-Texas Red	82387	82585	0	2.55	1947	12.68
561 Yellow-Green	C	7-AAD	61828	60921	-2	3.20	2272	12.96
561 Yellow-Green	B	PE-Cy5-5	54739	53626	-3	3.36	2250	11.54
561 Yellow-Green	A	PE-Cy7	10496	9799	-7	4.07	353	14.87

Detector Settings (Continued)

Laser	Detector	Parameter	Dim Bead Median Channel	Dim Bead % Robust CV	PMTV	Δ PMTV	Qr	Br	P/F
Blue	FSC	FSC	18688	5.05	405	46	N/A	N/A	Pass
Blue	C	SSC	59770	3.87	361	8	N/A	N/A	Pass
Blue	B	Alexa Fluor 488	109	58.45	612	11	0.0208	0	Pass
Blue	A	PerCP	91	80.09	633	9	0.0044	392	Pass
Red	C	Alexa Fluor 647	104	48.95	579	6	0.0100	74	Pass
Red	B	APC-Alexa 700	330	24.41	597	2	0.0080	0	Pass
Red	A	APC-Cy7	287	42.80	658	8	0.0031	227	Pass
561 Yellow-Green	E	DsRed	522	17.92	642	2	0.5244	0	Pass
561 Yellow-Green	D	PE-Texas Red	394	29.51	624	3	0.0391	0	Pass
561 Yellow-Green	C	7-AAD	343	39.23	703	-2	0.0450	85	Pass

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561 Yellow-Green	B	PE-Cy5-5	338	34.34	645	-4	0.0304	169	Pass
561 Yellow-Green	A	PE-Cy7	55	38.34	456	-3	0.0263	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	-76.74	-76.25	0.99
561 Yellow-Green	-39.45	-38.96	0.96
Blue	0.00	0.00	1.05

Window Extension: 2.00
FSC Area Scaling Factor: 0.95

Threshold

Threshold (FSC): 10333

Fluidics

Sheath Pressure: 24.79 Sample Pressure: 23.80
Nozzle Size: 100

Comments