

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 8.0.1
 Date: 11/09/2020 11:14 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	124229	-1	1.63	124164	1.58
Blue	C	SSC	125000	121750	-3	3.13	122146	2.91
Blue	B	Alexa Fluor 488	27038	26655	-2	2.54	613	17.38
Blue	A	PerCP	20137	20173	0	5.17	725	22.29
Red	C	Alexa Fluor 647	20177	20030	-1	3.71	680	18.2
Red	B	APC-Alexa 700	53518	52703	-2	5.88	2172	8.58
Red	A	APC-Cy7	50002	49810	-1	7.77	1910	15.07
561 Yellow-Green	E	DsRed	95457	94560	-1	2.3	2433	7.69
561 Yellow-Green	D	PE-Texas Red	82387	81897	-1	2.56	1932	12.27
561 Yellow-Green	C	7-AAD	61828	61625	-1	3.38	2304	12.33
561 Yellow-Green	B	PE-Cy5-5	54739	54005	-2	5.51	2261	10.99
561 Yellow-Green	A	PE-Cy7	10496	9852	-7	8.24	350	14.66

Detector Settings (Continued)

Laser	Detector	Parameter	Dim Bead Median Channel	Dim Bead % Robust CV	PMTV	Δ PMTV	Qr	Br	P/F
Blue	FSC	FSC	19965	2.95	359	0	N/A	N/A	Pass
Blue	C	SSC	58438	2.3	357	4	N/A	N/A	Pass
Blue	B	Alexa Fluor 488	107	52.42	603	2	0.0260	0	Pass
Blue	A	PerCP	92	76.75	625	1	0.0049	434	Pass
Red	C	Alexa Fluor 647	107	47.11	572	-1	0.0103	55	Pass
Red	B	APC-Alexa 700	334	22.33	591	-4	0.0266	3984	Pass
Red	A	APC-Cy7	292	39.23	649	-1	0.0044	607	Pass
561 Yellow-Green	E	DsRed	525	17.14	639	-1	0.5896	0	Pass
561 Yellow-Green	D	PE-Texas Red	391	28.48	619	-2	0.0417	0	Pass
561 Yellow-Green	C	7-AAD	349	36.76	701	-4	0.0501	77	Pass

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561 Yellow-Green	B	PE-Cy5-5	345	32.63	643	-6	0.0451	366	Pass
561 Yellow-Green	A	PE-Cy7	56	37.69	453	-6	0.0397	81	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	-75.31	-74.89	1.01
561 Yellow-Green	-38.57	-38.17	0.96
Blue	0.00	0.00	1.09

Window Extension: 2.00
FSC Area Scaling Factor: 0.93

Threshold

Threshold (FSC): 11603

Fluidics

Sheath Pressure: 24.78 Sample Pressure: 23.71
Nozzle Size: 100

Comments