

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: 11/23/2020 11:26 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	124463	-1	1.66	124398	1.62
Blue	C	SSC	125000	120942	-4	4.91	121442	4.70
Blue	B	Alexa Fluor 488	27038	26693	-2	3.58	615	17.33
Blue	A	PerCP	20137	20150	0	5.15	724	21.73
Red	C	Alexa Fluor 647	20177	19962	-2	3.68	680	17.98
Red	B	APC-Alexa 700	53518	52853	-2	3.18	2182	8.48
Red	A	APC-Cy7	50002	50109	0	4.33	1916	14.65
561 Yellow-Green	E	DsRed	95457	94090	-2	4.08	2408	8.39
561 Yellow-Green	D	PE-Texas Red	82387	80691	-3	4.14	1892	12.79
561 Yellow-Green	C	7-AAD	61828	60857	-2	4.39	2268	12.80
561 Yellow-Green	B	PE-Cy5-5	54739	53338	-3	4.82	2220	11.47
561 Yellow-Green	A	PE-Cy7	10496	9844	-7	5.77	352	14.95

Detector Settings (Continued)

Laser	Detector	Parameter	Dim Bead Median Channel	Dim Bead % Robust CV	PMTV	Δ PMTV	Qr	Br	P/F
Blue	FSC	FSC	20079	2.75	354	-5	N/A	N/A	Pass
Blue	C	SSC	57702	4.28	355	2	N/A	N/A	Pass
Blue	B	Alexa Fluor 488	108	52.95	600	-1	0.0273	0	Pass
Blue	A	PerCP	90	74.13	623	-1	0.0051	377	Pass
Red	C	Alexa Fluor 647	107	47.11	573	0	0.0106	73	Pass
Red	B	APC-Alexa 700	335	22.26	591	-4	0.0110	138	Pass
Red	A	APC-Cy7	291	39.50	649	-1	0.0036	158	Pass
561 Yellow-Green	E	DsRed	517	17.60	640	0	0.5965	0	Pass
561 Yellow-Green	D	PE-Texas Red	385	28.84	620	-1	0.0413	0	Pass
561 Yellow-Green	C	7-AAD	347	37.27	702	-3	0.0490	80	Pass

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561 Yellow-Green	B	PE-Cy5-5	336	33.46	644	-5	0.0354	216	Pass
561 Yellow-Green	A	PE-Cy7	56	37.69	454	-5	0.0288	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	-75.46	-74.89	1.01
561 Yellow-Green	-38.57	-38.16	0.96
Blue	0.00	0.00	1.11

Window Extension: 2.00
FSC Area Scaling Factor: 0.94

Threshold

Threshold (FSC): 12262

Fluidics

Sheath Pressure: 24.79 Sample Pressure: 23.71
Nozzle Size: 100

Comments