

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: 09/06/2021 11:18 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	123936	-1	2.99	123866	3.01
Blue	C	SSC	125000	123405	-2	4.66	123878	4.54
Blue	B	Alexa Fluor 488	27038	26904	-1	3.66	617	19.38
Blue	A	PerCP	20137	20085	-1	6.27	737	24.01
Red	C	Alexa Fluor 647	20177	19901	-2	4.21	676	19.38
Red	B	APC-Alexa 700	53518	52485	-2	4.74	2297	9.48
Red	A	APC-Cy7	50002	49607	-1	6.14	2067	15.99
561 Yellow-Green	E	DsRed	95457	95348	-1	2.35	2448	8.05
561 Yellow-Green	D	PE-Texas Red	82387	81831	-1	2.87	1919	12.78
561 Yellow-Green	C	7-AAD	61828	60864	-2	4.23	2298	13.57
561 Yellow-Green	B	PE-Cy5-5	54739	53723	-2	5.69	2342	11.98
561 Yellow-Green	A	PE-Cy7	10496	9683	-8	6.62	375	15.84

Detector Settings (Continued)

Laser	Detector	Parameter	Dim Bead Median Channel	Dim Bead % Robust CV	PMTV	Δ PMTV	Qr	Br	P/F
Blue	FSC	FSC	18742	5.56	405	46	N/A	N/A	Pass
Blue	C	SSC	57467	3.93	362	9	N/A	N/A	Pass
Blue	B	Alexa Fluor 488	105	57.25	616	15	0.0206	0	Pass
Blue	A	PerCP	91	80.09	637	13	0.0040	320	Pass
Red	C	Alexa Fluor 647	102	51.82	581	8	0.0091	66	Pass
Red	B	APC-Alexa 700	345	23.86	605	10	0.0092	358	Pass
Red	A	APC-Cy7	307	42.09	666	16	0.0029	207	Pass
561 Yellow-Green	E	DsRed	525	18.06	645	5	0.5364	0	Pass
561 Yellow-Green	D	PE-Texas Red	380	30.55	625	4	0.0395	11	Pass
561 Yellow-Green	C	7-AAD	340	38.31	709	4	0.0407	37	Pass

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561 Yellow-Green	B	PE-Cy5-5	353	35.26	653	4	0.0336	315	Pass
561 Yellow-Green	A	PE-Cy7	60	40.01	463	4	0.0244	8	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	-76.50	-76.05	0.99
561 Yellow-Green	-39.18	-38.85	0.96
Blue	0.00	0.00	1.05

Window Extension: 2.00
FSC Area Scaling Factor: 0.95

Threshold

Threshold (FSC): 11213

Fluidics

Sheath Pressure: 24.73 Sample Pressure: 23.80
Nozzle Size: 100

Comments