

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: 03/01/2021 12:02 PM
 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	124263	-1	2.14	124139	2.14
Blue	C	SSC	125000	123658	-2	5.72	124137	5.54
Blue	B	Alexa Fluor 488	27038	26717	-2	4.39	612	18.46
Blue	A	PerCP	20137	20463	1	5.67	737	23.02
Red	C	Alexa Fluor 647	20177	20003	-1	4.05	679	17.78
Red	B	APC-Alexa 700	53518	52651	-2	4.31	2231	8.59
Red	A	APC-Cy7	50002	49779	-1	5.37	1977	14.58
561 Yellow-Green	E	DsRed	95457	94557	-1	3.31	2415	8.30
561 Yellow-Green	D	PE-Texas Red	82387	81623	-1	3.37	1917	12.77
561 Yellow-Green	C	7-AAD	61828	61297	-1	4.07	2293	13.18
561 Yellow-Green	B	PE-Cy5-5	54739	53956	-2	4.64	2287	11.77
561 Yellow-Green	A	PE-Cy7	10496	9963	-6	6.09	367	15.22

Detector Settings (Continued)

Laser	Detector	Parameter	Dim Bead Median Channel	Dim Bead % Robust CV	PMTV	Δ PMTV	Qr	Br	P/F
Blue	FSC	FSC	20661	3.75	356	-3	N/A	N/A	Pass
Blue	C	SSC	60304	4.44	356	3	N/A	N/A	Pass
Blue	B	Alexa Fluor 488	109	54.46	606	5	0.0241	0	Pass
Blue	A	PerCP	93	76.81	628	4	0.0045	343	Pass
Red	C	Alexa Fluor 647	108	47.11	572	-1	0.0111	109	Pass
Red	B	APC-Alexa 700	348	22.98	592	-3	0.0133	1450	Pass
Red	A	APC-Cy7	304	39.67	650	0	0.0038	486	Pass
561 Yellow-Green	E	DsRed	530	18.09	642	2	0.5592	1	Pass
561 Yellow-Green	D	PE-Texas Red	392	29.21	622	1	0.0399	0	Pass
561 Yellow-Green	C	7-AAD	349	38.50	708	3	0.0447	75	Pass

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561 Yellow-Green	B	PE-Cy5-5	349	35.22	648	-1	0.0325	276	Pass
561 Yellow-Green	A	PE-Cy7	57	39.54	459	0	0.0277	14	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	-75.39	-74.73	1.02
561 Yellow-Green	-38.61	-38.05	0.97
Blue	0.00	0.00	1.12

Window Extension: 2.00
FSC Area Scaling Factor: 0.94

Threshold

Threshold (FSC): 10717

Fluidics

Sheath Pressure: 24.75 Sample Pressure: 23.74
Nozzle Size: 100

Comments