

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: 10/12/2020 09:45 AM
 Cytometer Baseline: 01/06/2020 04:02 PM
 P/F: Pass

Setup Beads

Bead Product: CST Setup Beads Part #: 910858
 Lot ID: 83326 Expiration Date: 11/30/2020
 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	124532	-1	2.40	124575	2.38
Blue	C	SSC	125000	125003	0	4.16	125629	4.20
Blue	B	Alexa Fluor 488	29683	29550	-1	3.81	735	18.24
Blue	A	PerCP	28186	28957	2	6.13	870	29.45
Red	C	Alexa Fluor 647	20935	21762	3	4.40	615	19.69
Red	B	APC-Alexa 700	64225	66080	2	5.28	2009	9.43
Red	A	APC-Cy7	56829	58774	3	6.58	1613	16.50
561 Yellow-Green	E	DsRed	99854	99958	0	2.04	2429	7.63
561 Yellow-Green	D	PE-Texas Red	76183	75815	-1	2.20	1684	12.31
561 Yellow-Green	C	7-AAD	75562	75163	-1	2.85	2295	13.13
561 Yellow-Green	B	PE-Cy5-5	59959	59273	-2	4.13	1909	11.24
561 Yellow-Green	A	PE-Cy7	13836	13101	-6	6.06	344	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	15532	8.37	434	11	N/A	N/A	Pass
Blue	C	SSC	57004	4.33	378	14	N/A	N/A	Pass
Blue	B	Alexa Fluor 488	118	56.69	642	8	0.0205	0	Pass
Blue	A	PerCP	131	87.91	681	16	0.0028	309	Pass
Red	C	Alexa Fluor 647	118	45.62	578	-1	0.0103	49	Pass
Red	B	APC-Alexa 700	493	18.91	599	-3	0.0132	1685	Pass
Red	A	APC-Cy7	402	32.86	653	-3	0.0034	138	Pass
561 Yellow-Green	E	DsRed	530	16.90	637	-10	0.5689	0	Pass
561 Yellow-Green	D	PE-Texas Red	351	28.06	605	-11	0.0396	0	Pass
561 Yellow-Green	C	7-AAD	477	31.13	707	-16	0.0400	5	Pass

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561 Yellow-Green	B	PE-Cy5-5	434	26.06	632	-14	0.0368	232	Pass
561 Yellow-Green	A	PE-Cy7	85	31.03	455	-12	0.0322	41	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	-73.48	-73.05	1.01
561 Yellow-Green	-38.19	-37.79	0.99
Blue	0.00	0.00	1.16

Window Extension: 2.00
FSC Area Scaling Factor: 1.04

Threshold

Threshold (FSC): 10459

Fluidics

Sheath Pressure: 24.81 Sample Pressure: 23.71
Nozzle Size: 100

Comments