

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: 01/09/2017 04:30 PM
 Cytometer Baseline: 01/09/2017 04:23 PM
 P/F: Pass

Setup Beads

Bead Product: CST Setup Beads Part #: 910858
 Lot ID: 77840 Expiration Date: 04/30/2017
 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	125496	0	2.33	125591	2.35
Blue	C	SSC	125000	123312	-2	3.55	124535	3.48
Blue	B	Alexa Fluor 488	23962	23751	-1	3.25	555	16.37
Blue	A	PerCP	34222	33879	-2	5.32	958	22.02
Red	C	Alexa Fluor 647	24800	24520	-2	8.29 (1)	665	23.99
Red	B	APC-Alexa 700	74528	72971	-3	9.70	2224	12.78
Red	A	APC-Cy7	63165	61141	-4	10.35	1749	19.90
561 Yellow-Green	E	DsRed	85280	84127	-2	8.86 (2)	2101	12.07
561 Yellow-Green	D	PE-Texas Red	68751	67706	-2	8.84	1588	16.71
561 Yellow-Green	C	7-AAD	76126	75050	-2	8.77	2225	19.48
561 Yellow-Green	B	PE-Cy5-5	62502	61154	-3	9.66	1917	15.38
561 Yellow-Green	A	PE-Cy7	21080	19726	-7	10.42	538	18.09

Detector Settings (Continued)

Laser	Detector	Parameter	Dim Bead Median Channel	Dim Bead % Robust CV	PMTV	Δ PMTV	Qr	Br	P/F
Blue	FSC	FSC	16776	4.45	334	-1	N/A	N/A	Pass
Blue	C	SSC	64538	3.08	360	1	N/A	N/A	Pass
Blue	B	Alexa Fluor 488	93	51.25	582	-1	0.0270	0	Pass
Blue	A	PerCP	148	62.55	642	1	0.0042	304	Pass
Red	C	Alexa Fluor 647	124	56.36	610	0	0.0065	98	Pass
Red	B	APC-Alexa 700	486	22.52	631	3	0.0078	2560	Pass
Red	A	APC-Cy7	392	39.10	688	3	0.0019	297	Pass
561 Yellow-Green	E	DsRed	451	22.53	664	-1	0.4410	17	Pass
561 Yellow-Green	D	PE-Texas Red	320	34.99	640	-1	0.0274	20	Pass
561 Yellow-Green	C	7-AAD	415	46.82	778	1	0.0201	106	Pass

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561 Yellow-Green	B	PE-Cy5-5	380	33.68	665	2	0.0218	431	Pass
561 Yellow-Green	A	PE-Cy7	119	37.06	501	0	0.0208	159	Pass

- (1) Bright Bead %Robust CV for Primary Channel, Detector C, for Red Laser is greater than recommended value.
(2) Bright Bead %Robust CV for Primary Channel, Detector E, for 561 Yellow-Green Laser is greater than recommended value.

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	-72.78	-71.86	1.03
561 Yellow-Green	-37.95	-37.13	0.99
Blue	0.00	0.00	1.16

Window Extension: 2.00
FSC Area Scaling Factor: 0.88

Threshold

Threshold (FSC): 10479

Fluidics

Sheath Pressure: 24.85 Sample Pressure: 23.84
Nozzle Size: 100

Comments