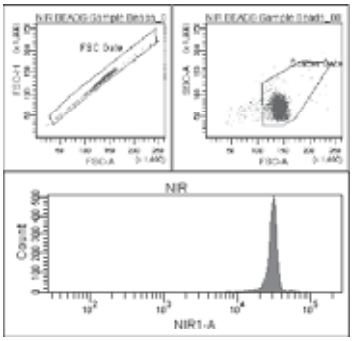
SPHERO™ Flow Cytometry Grade Fluorescent Particles

- Designed for flow cytometry applications
- Manufactured from high grade polystyrene particles
- Available in a variety of sizes and chemistries

Note: Many of the beads on pages16 to 18 are also useful in flow cytometry applications.

Fluorescent Particles	Excitation	Emission
UltraBlue	635 or 785 nm	APC-Cy7 / IR
CyGreen	635 or 785 nm	APC-Cy7 / IR
Aqua Green	635 or 785 nm	APC-Cy7 / IR
Jade Green	635 or 785 nm	APC-Cy7 / IR

Figure 68 Histograms of Cat. No. CFH-5078-2 at 735nm Ex dected by a PMT with 840/30 nm BP.



* Data provided by David Haviland, Ph.D. , University of Texas Health Science Center - Houston Center for Stem Cell Research - Flow Cytometry Laboratory

SPHERO™ Fluorescent IR Flow Cytometer Grade Particles

Particle Type and Surface	Size, µm	Catalog No.	Unit
Fluorescent, CyGreen, 10^7/mL	2.8-3.4	FP-3074-2	2 mL
Fluorescent, Jade Green, 10^7/mL	2.8-3.4	FP-3078-2	2 mL
Fluorescent, Aqua Green, 10^7/mL	3.0-3.4	FP-3079-2	2 mL
Fluorescent, CyGreen, 10^7/mL	5.0-5.9	FP-5074-2	2 mL
Fluorescent, Jade Green, 10^7/mL	5.0-5.9	FP-5078-2	2 mL
Fluorescent, CyGreen, Low Intensity, 10^7/mL	10.0-14.0	FL-10074-2	2 mL
Fluorescent, CyGreen, Mid Intensity, 10^7/mL	10.0-14.0	FP-10074-2	2 mL
Fluorescent, CyGreen, High Intensity, 10^7/mL	10.0-14.0	FH-10074-2	2 mL
Fluorescent, Jade Green, Low Intensity, 10^7/mL	10.0-14.0	FL-10078-2	2 mL
Fluorescent, Jade Green, Mid Intensity, 10^7/mL	10.0-14.0	FP-10078-2	2 mL
Fluorescent, Jade Green, High Intensity, 10^7/mL	10.0-14.0	FH-10078-2	2 mL
Fluorescent, Aqua Green, 10^7/mL	10.0-14.0	FP-10079-2	2 mL

Figure 69 Spectra of CyGreen, Jade Green and Aqua Green fluorophores at 640 nm excitation.

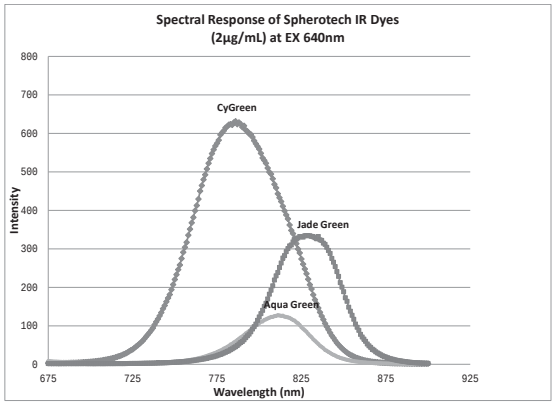
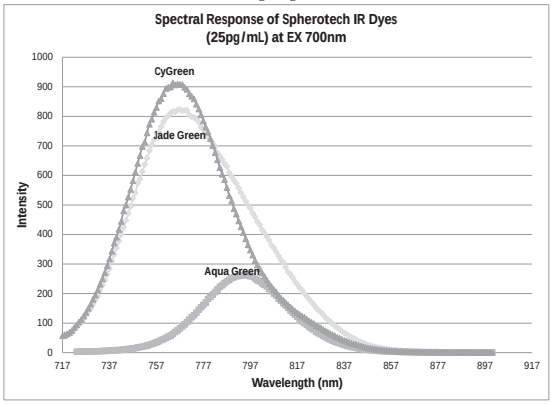
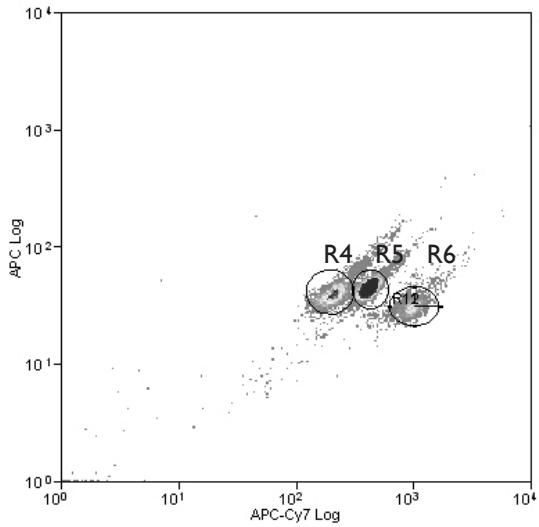


Figure 70 Fluorescence data for CyGreen, Jade Green, and Aqua Green. (a) Spectra of CyGreen, Jade Green and Aqua Green fluorophores at 700 nm excitation. (b) Histograms of Cat. No. CFP-5074-2 (R4), CFP-5078-2 (R5) & CFP-5079-2 (R6) at 635nm Ex dected in the ACP-Cy7 channel of a Beckman Coulter Cyan ADP

(A)



(B)



SPHERO™ Carboxyl Fluorescent IR Flow Cytometer Grade Particles

Particle Type and Surface	Size, µm	Catalog No.	Unit
Carboxyl, Fluorescent, Aqua Green, $2.9x10^{10}$/mL	0.1-0.3	CFP01-0279-10	10 mL
Carboxyl, Fluorescent, Aqua Green, $1.8x10^{9}$/mL	1.0-1.9	CFP01-1079-3	3 mL
Carboxyl, Fluorescent ,CyGreen 10^{7}/mL	3.0-3.4	CFP-3074-2	2 mL
Carboxyl, Fluorescent, Aqua Green, 10^{7}/mL	3.0-3.4	CFP-3079-2	2 mL
Carboxyl, Fluorescent ,UltraBlue, 10^{7}/mL	3.5-3.9	CFP-3571-2	2 mL
Carboxyl, Fluorescent, CyGreen, 10^{7}/mL	3.5-3.9	CFP-3574-2	2 mL
Carboxyl, Fluorescent, Jade Green, 10^{7}/mL	3.5-3.9	CFP-3578-2	2 mL
Carboxyl, Fluorescent, Aqua Green, 10^{7}/mL	3.5-3.9	CFP-3579-2	2 mL
Carboxyl, Fluorescent, UltraBlue, 10^{7}/mL	5.0-5.9	CFP-5071-2	2 mL
Carboxyl, Fluorescent, CyGreen, 10^{7}/mL	5.0-5.9	CFP-5074-2	2 mL
Carboxyl, Fluorescent, Jade Green, 10^{7}/mL	5.0-5.9	CFP-5078-2	2 mL
Carboxyl, Fluorescent, Jade Green, Low Intensity Peak I, 10^{7}/mL	5.0-5.9	CFL-5078-2A	2 mL
Carboxyl, Fluorescent, Jade Green, Low Intensity Peak 2,10^{7}/mL	5.0-5.9	CFL-5078-2B	2 mL
Carboxyl, Fluorescent, Aqua Green, 10^{7}/mL	5.0-5.9	CFP-5079-2	2 mL
Carboxyl, Fluorescent, Jade Green, High Intensity, 10^{7}/mL	5.0-5.9	CFH-5078-2	2 mL

Figure 71 Spectra of Cat. No. CFP-5078-2, CFL-5078-2A, CFP-5078-2B & CFH-5078-2 at 785 nm excitation.