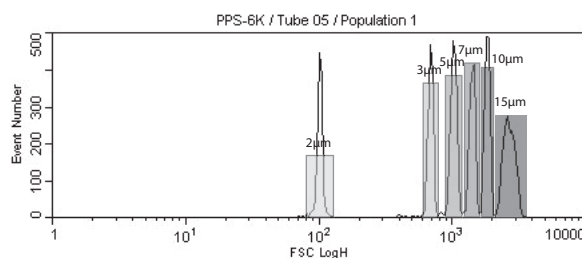
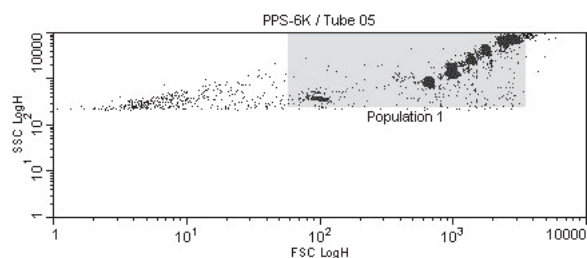


SPHERO™ Flow Cytometry Particle Size Standard Kit

The SPHERO™ Flow Cytometry Particle Size Standard Kit is designed to be a reliable size reference for flow cytometry. This kit consists of six different size particles with a known diameter. The diameter for each particle has been determined using a Beckman Coulter Multisizer 3 and NIST traceable particles.

Using FSC signals of the flow cytometry, the size of cells can be estimated when compared to the SPHERO™ Flow Cytometry Particle Size Standards. When using this product, be aware that FSC signals are related to both size and refractive index.

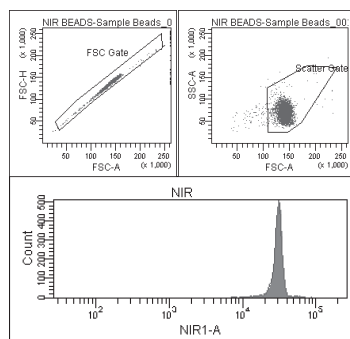
Particle Type and Surface	Size, μm	Catalog No.	Unit
Particle Size Standard Kit, Flow Cytometry Grade, $2.5 \times 10^6/\text{mL}$	2.0-2.4, 3.0-3.4, 5.0-5.9, 7.0-7.9, 8.0-12.9, & 13.0-17.9	PPS-6K	6x5 mL



FSC Log Histograms of PPS-6K on a Stratadigm S1400

SPHERO™ IR Fluorescent Particles

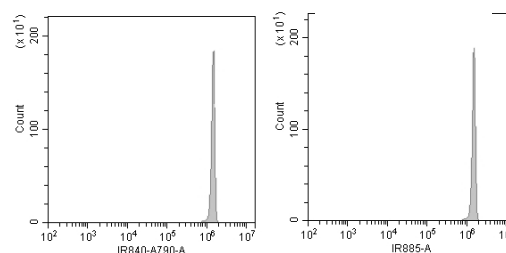
- Designed for flow cytometry applications with NIR and IR excitations
- Manufactured from flow cytometer grade polystyrene particles
- Available in a variety of sizes and chemistries



*Histograms of CFH-5078-2 at
735nm Ex detected 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

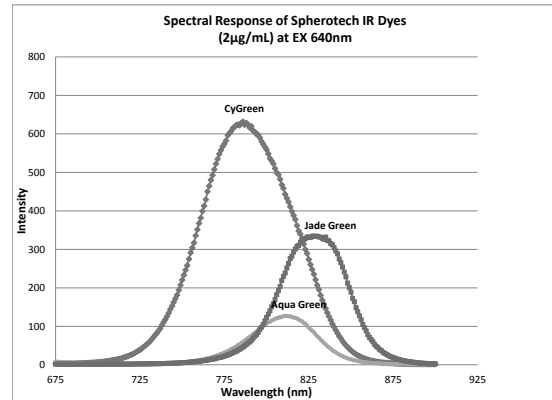
Particle Type and Surface	Size, μm	Catalog No.	Unit
Fluorescent, CyGreen, $10^7/\text{mL}$	2.8-3.4	FP-3074-2	2 mL
Fluorescent, Jade Green, $10^7/\text{mL}$	2.8-3.4	FP-3078-2	2 mL
Fluorescent, Aqua Green, $10^7/\text{mL}$	3.0-3.4	FP-3079-2	2 mL
Fluorescent, CyGreen, $10^7/\text{mL}$	5.0-5.9	FP-5074-2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



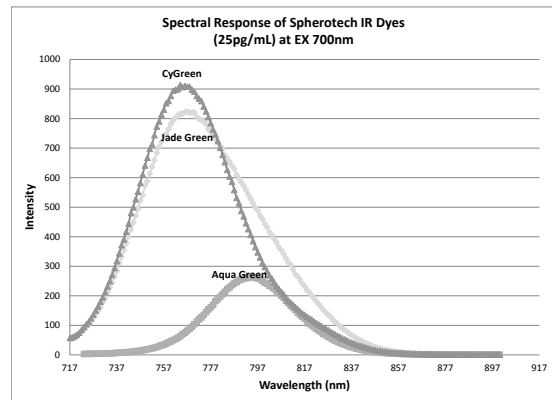
Histogram of the FH-10078-2

SPHERO™ Carboxyl IR Fluorescent Particles

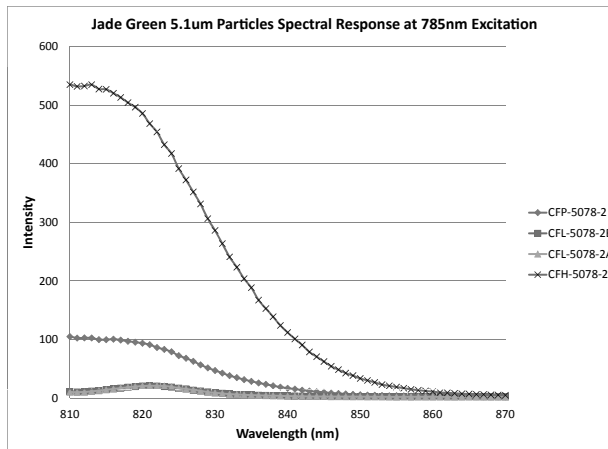
Particle Type and Surface	Size, μm	Catalog No.	Unit
Carboxyl, Fluorescent, Aqua Green, $2.9 \times 10^{10}/\text{mL}$	0.1-0.3	CFP01-0279-10	10 mL
Carboxyl, Fluorescent, Aqua Green, $1.8 \times 10^9/\text{mL}$	1.0-1.9	CFP01-1079-3	3 mL
Carboxyl, Fluorescent, CyGreen, $10^7/\text{mL}$	3.0-3.4	CFP-3074-2	2 mL
Carboxyl, Fluorescent, Aqua Green, $10^7/\text{mL}$	3.0-3.4	CFP-3079-2	2 mL
Carboxyl, Fluorescent, UltraBlue, $10^7/\text{mL}$	3.5-3.9	CFP-3571-2	2 mL
Carboxyl, Fluorescent, CyGreen, $10^7/\text{mL}$	3.5-3.9	CFP-3574-2	2 mL
Carboxyl, Fluorescent, Jade Green, $10^7/\text{mL}$	3.5-3.9	CFP-3578-2	2 mL
Carboxyl, Fluorescent, Aqua Green, $10^7/\text{mL}$	3.5-3.9	CFP-3579-2	2 mL
Carboxyl, Fluorescent, UltraBlue, $10^7/\text{mL}$	5.0-5.9	CFP-5071-2	2 mL
Carboxyl, Fluorescent, CyGreen, $10^7/\text{mL}$	5.0-5.9	CFP-5074-2	2 mL
Carboxyl, Fluorescent, Jade Green, $10^7/\text{mL}$	5.0-5.9	CFP-5078-2	2 mL
Carboxyl, Fluorescent, Jade Green, Low Intensity Peak 1, $10^7/\text{mL}$	5.0-5.9	CFL-5078-2A	2 mL
Carboxyl, Fluorescent, Jade Green, Low Intensity Peak 2, $10^7/\text{mL}$	5.0-5.9	CFL-5078-2B	2 mL
Carboxyl, Fluorescent, Aqua Green, $10^7/\text{mL}$	5.0-5.9	CFP-5079-2	2 mL
Carboxyl, Fluorescent, Jade Green, High Intensity, $10^7/\text{mL}$	5.0-5.9	CFH-5078-2	2 mL



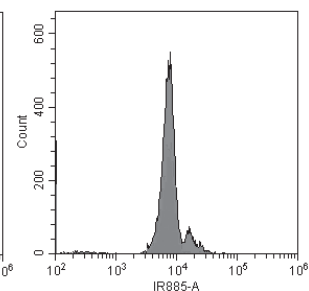
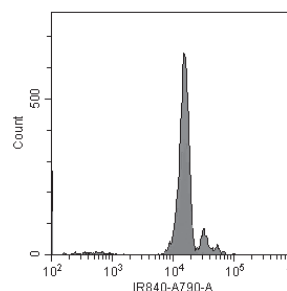
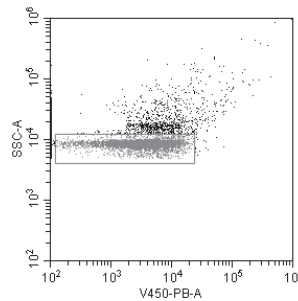
Spectra of CyGreen, Jade Green and Aqua Green fluorophores at 640 nm excitation



Spectra of CyGreen, Jade Green and Aqua Green fluorophores at 700 nm excitation



Spectra of CFP-5078-2, CFL-5078-2A, CFL-5078-2B & CFH-5078-2 at 785 nm excitation



Dot plot and histograms of CFP01-0279-10 on a Beckman Coulter cytoFLEX LX