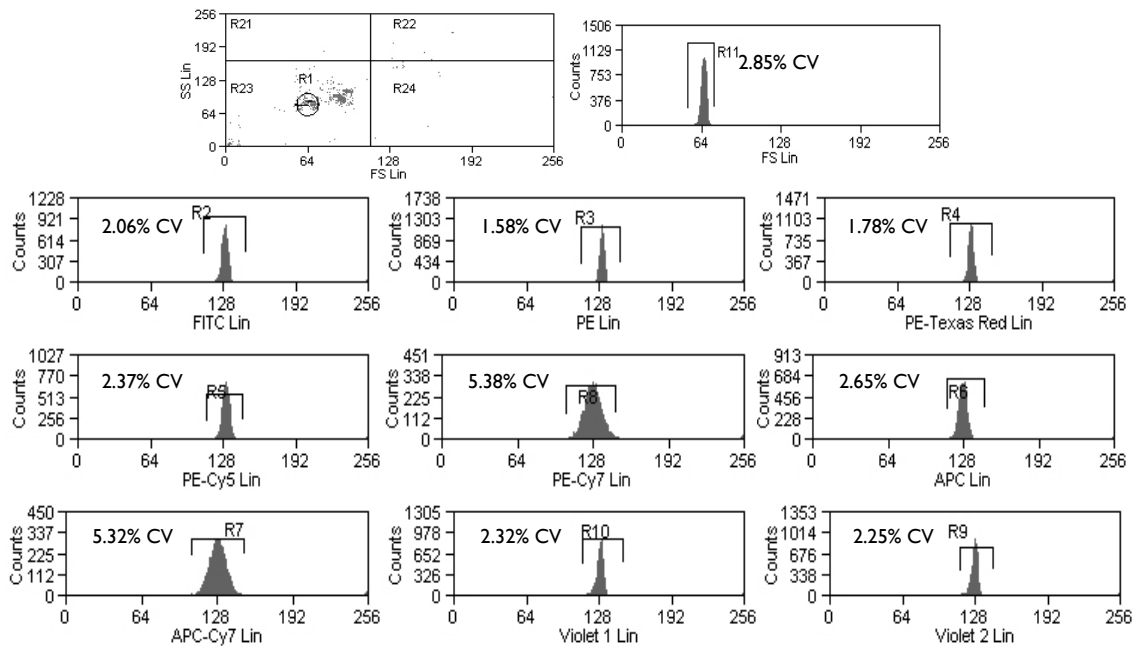


## SPHERO™ Rainbow Fluorescent Particles

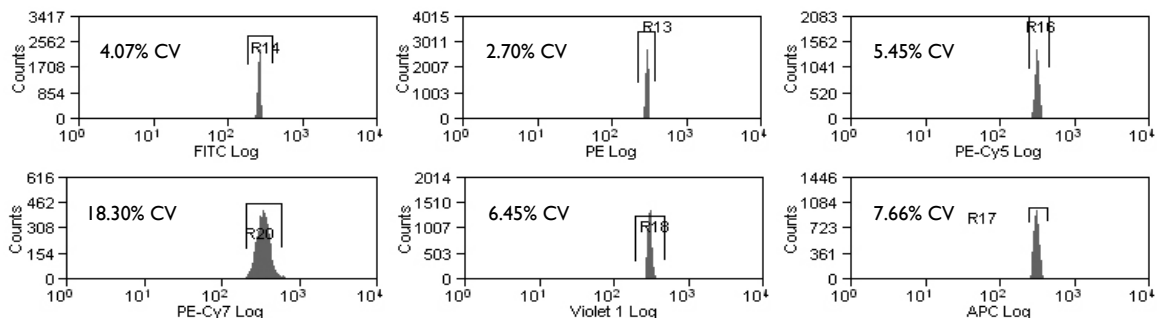
The Rainbow Fluorescent Particles are similar to Rainbow Calibration Particles except that these represent uniform size particles with a single intensity. The Rainbow Fluorescent Particles are usually the brightest peak of the corresponding Rainbow Calibration Particles with the exception of RFP-50-5, RFP-70-2, RFP-100-2 and RFP-30-5A. The RFP-30-5A has the fluorescence intensity similar to stained cells in all channels. Since these particles contain a single peak with very small fluorescence and size CV, they are very useful in the alignment of the optical system of the flow cytometer in all channels.

Particle Type and Surface	Size, $\mu\text{m}$	Catalog No.	Unit
Rainbow Fluorescent, $10^7/\text{mL}$ (Intensity similar to brightest peak in RCP-20-5)	1.8-2.2	RFP-20-5	5 mL
Rainbow Fluorescent, $10^7/\text{mL}$ (Intensity similar to brightest peak in RCP-30-5)	3.0-3.4	RFP-30-5	5 mL
Rainbow Fluorescent, $10^7/\text{mL}$ (Intensity similar to mid range FLI fluorescence in RCP-30-5)	3.0-3.4	RFP-30-5A	5 mL
Rainbow Fluorescent, $10^7/\text{mL}$ (Intensity similar to brightest peak in RCP-35-5)	3.5-4.0	RFP-35-5	5 mL
Rainbow Fluorescent, $10^7/\text{mL}$	5.0-5.9	RFP-50-5	5 mL
Rainbow Fluorescent, $10^7/\text{mL}$ (Intensity similar to brightest peak in RCP-60-5)	6.0-6.4	RFP-60-5	5 mL
Rainbow Fluorescent, $10^7/\text{mL}$	6.5-8.0	RFP-70-5	5 mL
Rainbow Fluorescent, $10^7/\text{mL}$	8.1-12.0	RFP-100-2	2 mL

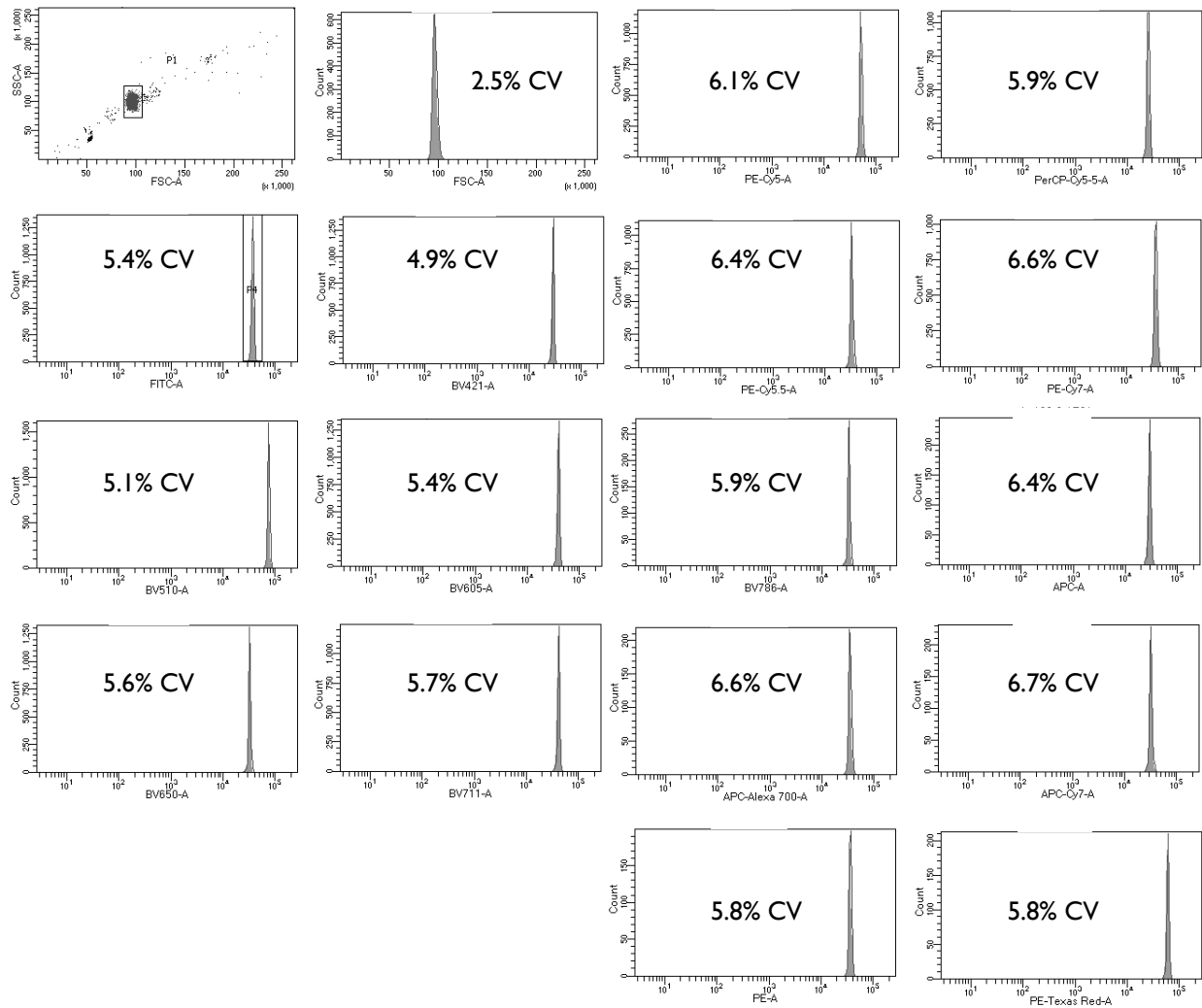
**Figure 63** Histograms of the Rainbow Fluorescent Particles (Cat. No. RFP-30-5, Lot No. AF02).



**Figure 64** Histograms of the Rainbow Fluorescent Particles, Mid-Range (Cat. No. RFP-30-5A, Lot No. AF02).



**Figure 65** Histograms showing fluorescence intensities of Rainbow Fluorescent Particles (Catalog No. RFP-100-2, Lot No. AE01) on a BD Bioscience LSRFortessa™ X-20 are shown below.



Flow Cytometry Particles - Alignment

**Figure 66** Histograms showing fluorescence intensities of Rainbow Fluorescent Particles (Catalog No. RFP-30-2, Lot No. AF02) on a BD Bioscience LSRFortessa™ X-20 are shown below.

