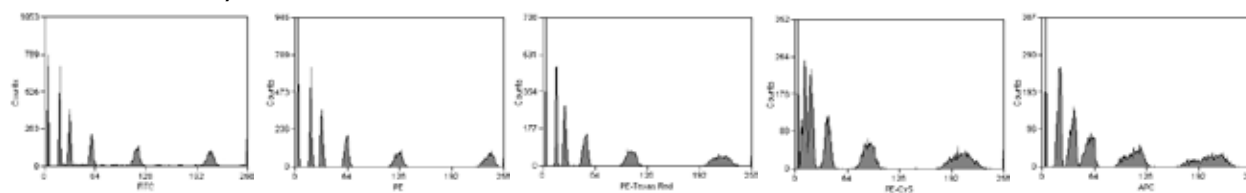


## SPHERO™ Rainbow Linear Calibration Particles

- Designed to check the linearity of the PMT in the linear scale of flow cytometers
- Used to quantitate the DNA content of cells stained with either Hoechst dyes, DAPI, Ethidium Bromide, Propidium Iodide, YOYO or TOTO.

Particle Type and Surface	Size, $\mu\text{m}$	Catalog No.	Unit
Rainbow Linear Calibration, $10^7/\text{mL}$ , 6 peaks	3.0-3.4	RLP-30-5	5 mL

**Figure 48** Histograms of the Rainbow Linear Calibration Particles (Cat. No. RLP-30-2, Lot No. AE01) on a Beckman Coulter Cyan™ ADP.

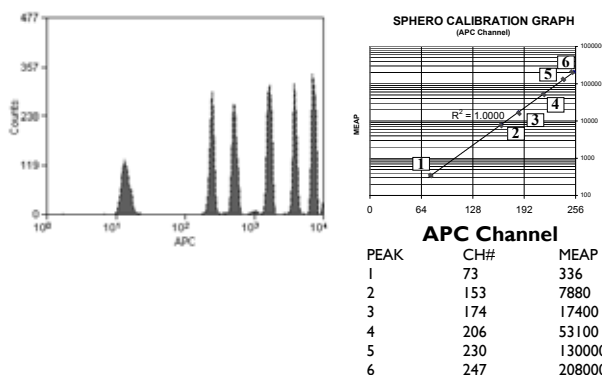


## SPHERO™ Allophycocyanin Calibration Particles

- Contain a mixture of fluorescent particles with different intensities in the Allophycocyanin channel
- Excited with either He-Ne laser at 632 nm or a diode laser at 635 nm
- Used to determine the linearity of the logarithmic amps and sensitivity of flow cytometers in Allophycocyanin channel.

Particle Type and Surface	Size, $\mu\text{m}$	Catalog No.	Unit
APC Calibration, $10^7/\text{mL}$ , 6 peaks	3.0-3.4	ACP-30-5K	2x5 mL

**Figure 49** Histograms of the Allophycocyanin Calibration Particles Kit (Cat. No. ACP-30-5K, Lot No. AC01) on a Beckman Coulter Cyan™ ADP.



## SPHERO™ IR Calibration Particles

- Contain a mixture of fluorescent particles with different intensities in IR channels
- Excited with 785-nm IR diode laser or other laser operating in the infrared
- Used to determine the linearity of the logarithmic amps and sensitivity of flow cytometers in near-IR channels.

Particle Type and Surface	Size, $\mu\text{m}$	Catalog No.	Unit
IR Calibration, $10^7/\text{mL}$ , 800nm EM, 4 peaks	3.5 (+/- 0.2)	FCP-3580-2	2 mL

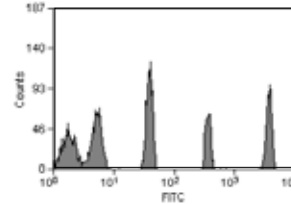
Flow Cytometry Particles - Linearity and Sensitivity

## SPHERO™ Yellow Calibration Particles

- Designed for routine calibration of the Fluorescein channel
- Contains a set of Yellow Particles with different fluorescence intensities.
- Increased stability over FITC surface labeled particles.

Particle Type and Surface	Size, $\mu\text{m}$	Catalog No.	Unit
Yellow Calibration, $10^7/\text{mL}$ , 6 peaks	6.0-8.0	YCP-70-5	5 mL

**Figure 50** Histograms of the Yellow Calibration Particles (Cat. No. YCP-70-2, Lot No. AE01) on a Beckman Coulter Cyan™ ADP.

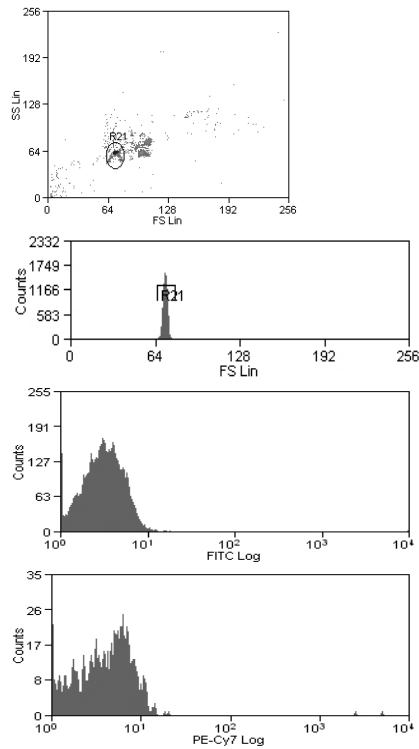


## SPHERO™ Blank Calibration Particles

- Consists of the blank peak of the corresponding Rainbow Calibration Particles
- Used to set the threshold of the instrument in each channel.

Particle Type and Surface	Size, $\mu\text{m}$	Catalog No.	Unit
Blank Calibration, $10^7/\text{mL}$	1.8-2.2	BCP-20-5	5 mL
Blank Calibration, $10^7/\text{mL}$	3.0-3.4	BCP-30-5	5 mL
Blank Calibration, $10^7/\text{mL}$	3.2 (+/-0.1)	BCP-32-5	5 mL
Blank Calibration, $10^7/\text{mL}$	3.5-4.0	BCP-35-5	5 mL
Blank Calibration, $10^7/\text{mL}$	5.0-5.9	BCP-50-5	5 mL
Blank Calibration, $10^7/\text{mL}$	6.0-6.4	BCP-60-5	5 mL
Blank Calibration, $5 \times 10^6/\text{mL}$	8.0-12.9	BCP-100-5	5 mL

**Figure 51** Histograms of the Blank Calibration Particles (Cat. No. BCP-30-5, Lot No. AG01) on a Beckman Coulter Cyan™ ADP.



Below are the **Blank Calibration Particles** not associated with the Rainbow Calibration Particles.

Particle Type and Surface	Size, $\mu\text{m}$	Catalog No.	Unit
Blank Calibration, $10^7/\text{mL}$	1.0-1.4	BCP-10-5	5 mL
Blank Calibration, $10^7/\text{mL}$	6.5-8.0	BCP-70-5	5 mL
Blank Calibration, $5 \times 10^6/\text{mL}$	13.0-17.9	BCP-150-5	5 mL
Blank Calibration, $5 \times 10^5/\text{mL}$	18.0-24.9	BCP-200-5	5 mL
Blank Calibration, $5 \times 10^5/\text{mL}$	25.0-35.0	BCP-300-5	5 mL