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TECHNICAL DATA

SPHERO™ Rainbow Calibration Particles, 3.0–3.4 μm. PRODUCT:

CAT. NO.: RCP-30-5

LOT NO.: U01

SIZE: 5 mL in water containing 0.01% NP40

~ 10 X 10 6 particles/mL CONC.:

PRESERVATIVE: 0.02% Sodium Azide*

STORAGE: Store at 2 to 8° C.

DESCRIPTION: This product contains a mixture of 3.0 µm. Rainbow particles in

six different fluorescent intensities. Every Rainbow particle contains a mixture of fluorophores that enable the Rainbow

particles to be excited at any wavelength from 365 to 650 nm.

USE: Routine calibration of Flow cytometers. Dilution of 3 - 5 drops to

1 mL will provide adequate number of particles for flow

cytometry.

NOTE: Shake vigorously or vortex briefly before use. Inclusion of small

> amount of detergent in the diluent will help to increase the number of singles. Diluted particles can be stored in the refrigerator for

future use.

*WARNING: Sodium Azide can react with Cu and Pb in plumbing to form explosive

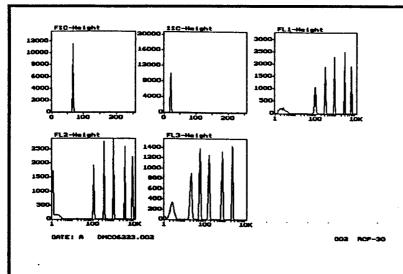
metal azides. Flush this reagent down drains with copious amounts of

water.

NOTE: FOR RESEARCH APPLICATIONS ONLY. NOT FOR DIAGNOSTIC USE.

EXPIRES ONE YEAR AFTER OPENING. PLEASE RECORD OPENING

DATE ON THE BOTTLE.

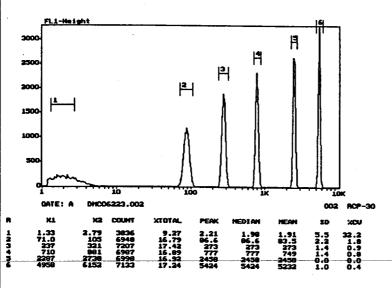


Distribution of Singlet Beads

Gated on singlet beads.

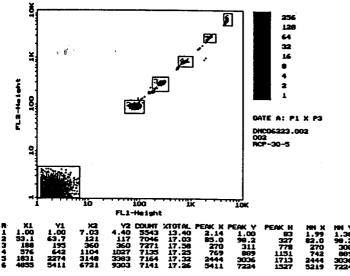
Resolution of all populations for all three spectral ranges, green, yellow, and red is excellent.

The resolution of particle size is excellent. Forward scatter distribution is less than 1.6%CV.



Green Distribution of Singlet Beads

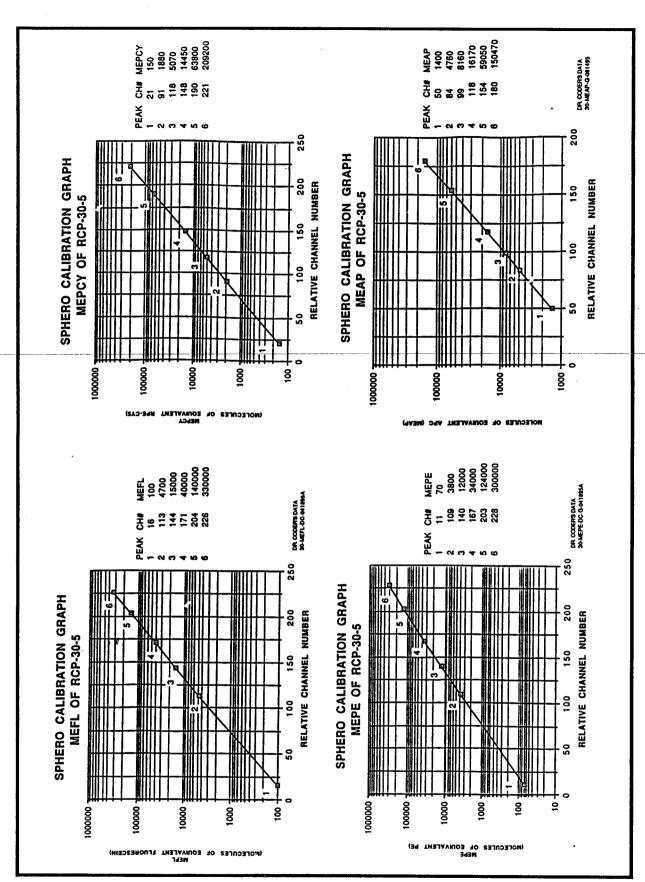
Gated to include only singlet beads. All populations are very well resolved, and the relative brightness differences are well spaced in the distribution. The brightness differences match the FITC equivalents quite well.



Dot Plot of FL1 vs. FL2

Gated on singlet beads the dot plot shows the easily resolved populations of all five medium to bright beads and the near negative dim population.

The percentage of each region shows that all beads in the mix are present at nearly the same number. (The dimmest beads are present at a lower frequency since some were gated out.)



FLOWCYTOMETRY DATA WAS OBTAINED BY DR. DAVID M. CODER (UNIVERSITY OF WASHINGTON)

