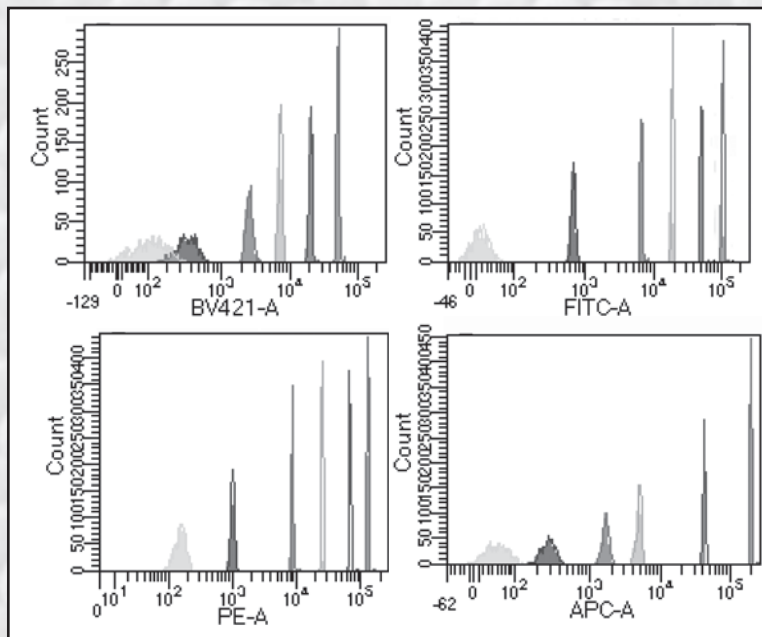


Spherotech

Let the Possibilities Flow

SPHERO™ Ultra Rainbow Quantitative Particle Kit Multicolor Flow Cytometry Fluorescence Standard

- Contains 6 intensities of Ultra Rainbow Fluorescent Beads with NIST assigned ERF (Equivalent Number of Reference Fluorophores) values based on a published procedure using NIST SRM 1934 and a calibrated laser-based CCD fluorimeter
- Provides microsphere reference standards for fluorescein isothiocyanate (FITC), phycoerythrin (PE), allophycocyanin (APC) and Pacific Blue (PB) fluorescent channels using four different NIST reference fluorophores; fluorescein, Nile Red, APC and Coumarin 30.
- Used during flow cytometry standardization and calibration measurements for the further advancement of biological and clinical applications.

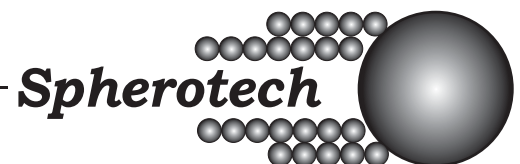


Histograms of Cat. No. URQP-38-6K - UltraRainbow Quantitative Particle Kit, 3.9µm, 6 Intensities

To learn more about Spherotech Ultra Rainbow Quantitative Particles visit us online

www.spherotech.com

27845 Irma Lee Circle, Unit 101
Lake Forest, IL 60045-5100
(847) 680-8922 fax (847) 680-8927



SPHERO™ Ultra Rainbow Quantitative Particle Kit

Designed to determine the accuracy, precision & sensitivity in the Pacific Blue, FITC, PE, & APC channels

Accuracy

- Provides a bead set to accurately measure comparable data from different types of instruments at different locations
- Determines the linearity of the digital output from the analog-to-digital converter

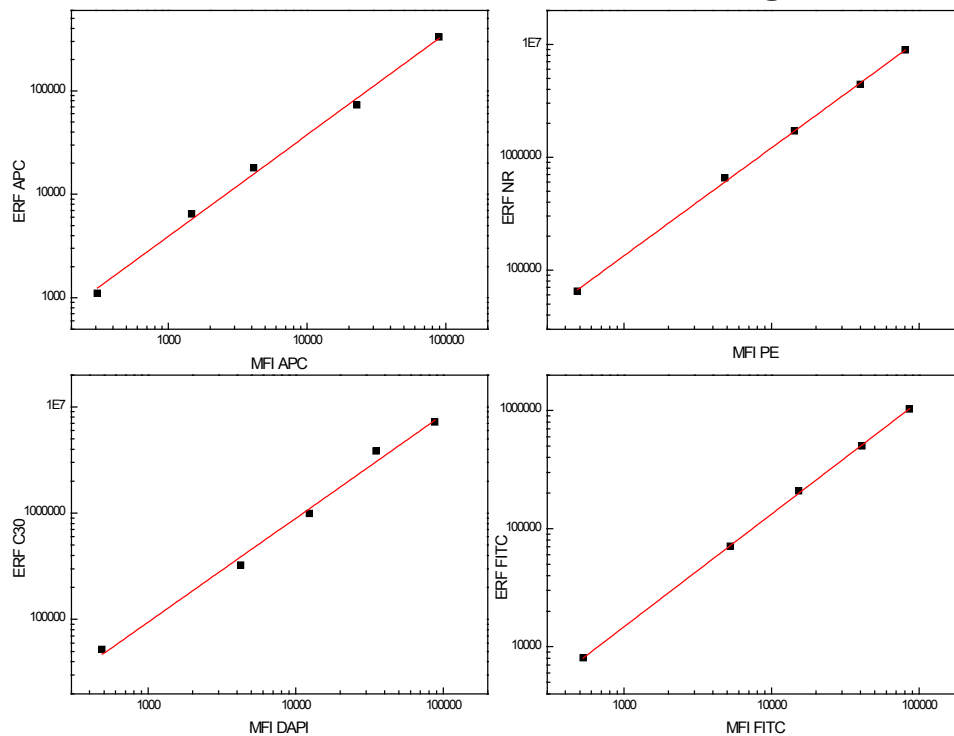
Precision

- Detects laser fluctuations, failed electronics, or obstructions in the flow cell

Sensitivity

- Determines background noise level and instrument efficiency
- Checks instrument's ability to distinguish dim peaks from blank beads
- Detects dye or light contamination

URQP-38-6K MFI vs. ERF Value Assigned



MFI FITC	ERF FITC	MFI NR	MFI APC	ERF APC	MFI APC	MFI DAPI	ERF C30
528	8020	483	64900	310	1110	487	52400
5268	71000	4842	653000	1475	6480	4250	323000
15255	209000	14354	1.71E6	4146	18000	12385	995000
41182	499000	40108	4.41E6	22942	73300	35058	3.83E6
86038	1.03E6	80739	8.93E6	89421	331000	88138	7.17E6

Particle Type and Surface	Size, μm	Catalog No.	Unit
Ultra Rainbow Quantitative Particle Kit, 6 Intensities, 2E6/mL, (NIST Traceable ERF Flow Cytometry Standard)	3.5-3.9	URQP-38-6K	6x1 mL

Visit us online for more details regarding Spherotech Ultra Rainbow Quantitative Particle Kit