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.

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

<table>
<thead>
<tr>
<th>MFI FITC</th>
<th>ERF FITC</th>
<th>MFI NR</th>
<th>MFI APC</th>
<th>ERF APC</th>
<th>MFI APC</th>
<th>MFI DAPI</th>
<th>ERF C30</th>
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