SPHEROC™ Ultra Rainbow Calibration Particle Kits

- Consists of one bead with multiple fluorophores and intensities for calibration in all channels of the flow cytometer
- Designed for routine calibration and long term performance tracking
- Used to optimize the linearity, resolution and sensitivity
- Simplifies the calibration in the UV, Violet, Far Red, and IR channels.

A set of calibration particles, Ultra Rainbow Calibration Particles, are now available for performance tracking of flow cytometers with fluorescent channels in the UV to Far Red. The Ultra Rainbow Calibration Particle Kits are available in either 3.8 μm, 5.1 μm, or 10 μm. The Ultra Rainbow Calibration Particles have improved resolution in the UV, PE-Cy7, APC, and APC-Cy7 channels.

### Particle Type and Surface

<table>
<thead>
<tr>
<th>Particle Type and Surface</th>
<th>Size, μm</th>
<th>Catalog No.</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ultra Rainbow Calibration Kit, 6 peaks, $10^7$/mL</td>
<td>3.8 +/- 0.2</td>
<td>URCP-38-2K</td>
<td>2 mL</td>
</tr>
<tr>
<td>Ultra Rainbow Calibration Kit, 6 peaks, $10^7$/mL</td>
<td>3.8 +/- 0.2</td>
<td>URCP-38-20K</td>
<td>20 mL</td>
</tr>
<tr>
<td>Ultra Rainbow Calibration Kit, 6 peaks, $10^7$/mL</td>
<td>5.0-5.4</td>
<td>URCP-50-2K</td>
<td>2 mL</td>
</tr>
<tr>
<td>Ultra Rainbow Calibration, 3 peaks, $10^6$/mL</td>
<td>3.0-3.4</td>
<td>URCP01-30-10K</td>
<td>10x3mL</td>
</tr>
<tr>
<td>Ultra Rainbow Calibration, 6 peaks, $10^7$/mL</td>
<td>8.0-12.9</td>
<td>URCP-100-2</td>
<td>2 mL</td>
</tr>
</tbody>
</table>

Histogram of URCP-38-2K from a BD Bioscience LSRFortessa™ X-20

Dot plot and histogram of URCP-38-2K from a Beckman Coulter CytoFLEX LX
Flow Cytometry Particles - Linearity and Sensitivity

Dot plot and histogram of URCP-38-2K from a 10 Color FacsCanto from BD

Dot plot and histogram of URCP-50-2K from a BD Bioscience LSRFortessa™ X-20
Dot plot and histograms of URCP-100-2H from a BD Bioscience Fortessa™ X-20
Dot plot and histogram of URCP-38-2K from a Guava easyCyte 12

**SPHERO™ Ultra Rainbow Calibration Particles**

One Bead, Multiple Intensities Calibrating all Channels
- Designed for routine calibration of the flow cytometer in all channels
- Optimizes the linearity, sensitivity, and resolution of the flow cytometer
- Simplifies the calibration of multiple laser flow cytometers including Far Red, Violet and UV channels