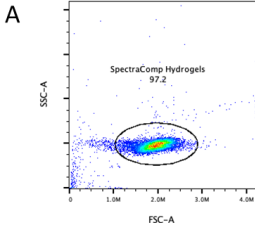
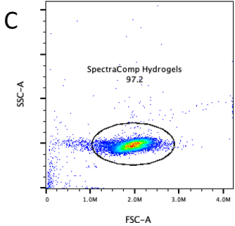
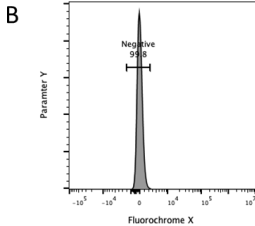
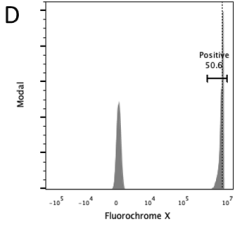


# 1. Technical Data Sheet

<p><b>Summary</b></p>	<p>SpectraComp® compensation controls are state-of-the-art cell mimics that capture multiple antibody host species (mouse anti-human, mouse, rat, and hamster), and provide a fluorescence spectra for the antibody they are stained with.</p>
<p><b>Application</b></p>	<p>SpectraComp® are intended as compensation or unmixing controls to match the single staining performance of real cells. Staining the cell mimics yields a positive peak and a negative peak for use as single-stained controls.</p> <p>Note: SpectraComp® performance has been verified and validated on analytical flow cytometers and not on cell sorters.</p> <p><b>For Research Use Only. Not for use in diagnostic or therapeutic procedures.</b></p>
<p><b>Materials</b></p>	<p>SpectraComp® are cell mimics that are suspended in aqueous solution and are packaged in a convenient dropper bottle. Each drop contains approximately <math>1 \times 10^5</math> cell mimics.</p>
<p><b>Handling and Safety</b></p>	<p>No special handling or safety precautions are necessary. See Safety Data Sheet (SDS) at <a href="http://www.slingshotbio.com">www.slingshotbio.com</a>.</p>
<p><b>Instructions for Use</b></p>	<ol style="list-style-type: none"> <li>1. Unpack and vortex the vial on high for 2 - 3 seconds to resuspend cell mimics.</li> <li>2. Add 1 drop of the SpectraComp cell mimics into the bottom of the test tube or well of a plate for each fluorophore you will have in the experiment.             <p><b>Note:</b> SpectraComp is formulated to provide an internal negative population that is not designed to bind antibody. You have the option to use this as a negative population for compensation/unmixing workflows, or you can prepare a separate unstained SpectraComp tube/well for a universal negative.</p> </li> <li>3. Add your antibody to the mixture and vortex.             <p><b>Note:</b> It is recommended to pre-determine the appropriate titer of the antibody that works best for the application.</p> </li> <li>4. Incubate at room temperature for 15 - 30 minutes, protected from light.             <p><b>Note:</b> Use the same treatment of SpectraComp as you would with cells (i.e. if you are permeabilizing and fixing your cells, you should treat SpectraComp exactly the same).</p> </li> <li>5. Add 2 ml of 1X PBS containing 1% BSA (Bovine Serum Albumin) to the tube.             <p><b>Note:</b> Staining buffer containing BSA or FBS (Fetal Bovine Serum) can be used for washing.</p> </li> </ol>

	<ol style="list-style-type: none"> <li>6. Centrifuge the tube for 5 minutes at 600 g and immediately aspirate the supernatant to minimize the cell mimic loss, being careful not to disturb the pellet.</li> <li>7. For maximal signal to noise ratio, repeat steps 5 and 6 at least once for a total of 2 washes or more. Centrifuge again for 5 minutes at 600 g after the final wash.</li> <li>8. Resuspend the cell mimic pellet in 1X PBS at preferred volume.</li> </ol> <p><b>Note:</b> Protect the samples from light and analyze the samples as soon as possible.</p> <ol style="list-style-type: none"> <li>9. View and acquire the SpectraComp cell mimics on the same instrument settings as leukocytes.</li> </ol>
<p><b>Storage</b></p>	<p>SpectraComp should be stored at 2-8°C once the product is received.</p>
<p><b>Expiration</b></p>	<p>18 months from the date of manufacturing.</p>
<p><b>QC Data</b></p>	<p style="text-align: center;">SpectraComp Figure 1 (A, B, C, D)</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p><b>A</b></p>  </div> <div style="text-align: center;"> <p><b>C</b></p>  </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="text-align: center;"> <p><b>B</b></p>  </div> <div style="text-align: center;"> <p><b>D</b></p>  </div> </div> <p>Figure 1. (A) Gate the SpectraComp population from the negative sample. (B) Place a gate on the negative histogram for the fluorophore of interest from the negative sample. (C) Gate the SpectraComp population from a positive single-stain control sample. (D) Place a gate on the positive histogram for the fluorophore of interest from the positive single-stain control sample.</p>
<p><b>Technical Support</b></p>	<p>For technical support regarding this product please contact: <a href="mailto:support@slingshotbio.com">support@slingshotbio.com</a></p>