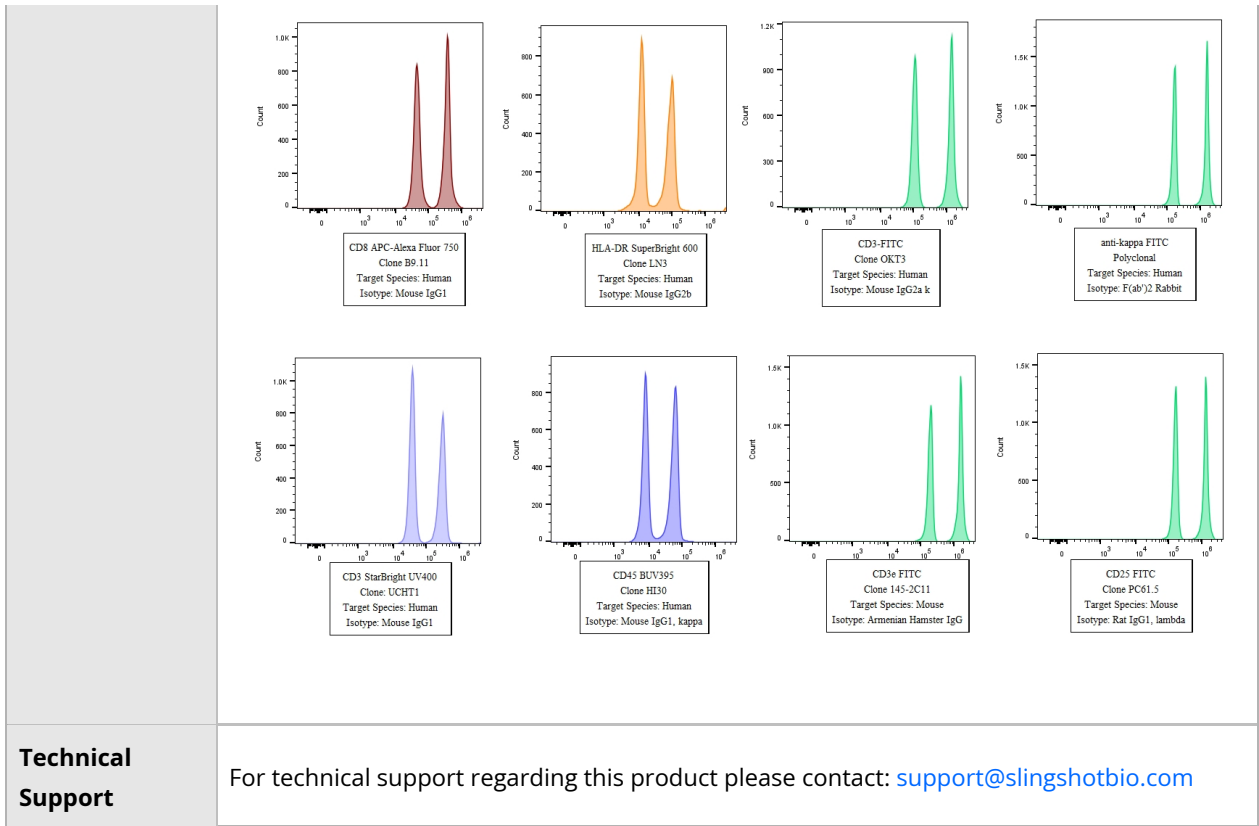


# 1. Technical Data Sheet

<p><b>Summary</b></p>	<p>SpectraComp® Flex Multipeak compensation and unmixing controls are state-of-the-art hydrogels that capture multiple antibody host species (mouse anti-human, mouse, rat, hamster, and rabbit), and mimic the fluorescence spectra of stained cells.</p>
<p><b>Application</b></p>	<p>SpectraComp® Flex Multipeak are intended as compensation and unmixing controls to match the single stained performance of real cells. Staining the hydrogels yields a positive fluorescence histogram with two positive peaks that will aid in resolving the performance of the fluorophore; it will also serve as the basis for the positive signal of a given fluorophore for compensation and/or spectral unmixing.</p> <p>Note: SpectraComp® Flex Multipeak 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® Flex Multipeak are hydrogels that are suspended in aqueous solution and are packaged in a convenient dropper bottle. Each drop contains approximately <math>1 \times 10^5</math> hydrogels.</p>
<p><b>Handling and Safety</b></p>	<p>No special handling or safety precautions are necessary. See the Safety Data Sheet (SDS) at <a href="http://www.slingshotbio.com">www.slingshotbio.com</a>.</p>
<p><b>Storage</b></p>	<p>SpectraComp® Flex Multipeak 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>Instructions for Use</b></p>	<ol style="list-style-type: none"> <li>1. Unpack and vortex both vials on high for 2 - 3 seconds to resuspend cell mimics.</li> <li>2. Add 1 drop of the SpectraComp® Flex Multipeak Negative into the bottom of a test tube or well of a plate for the unstained negative control. (1 drop contains approximately <math>1 \times 10^5</math> hydrogels).</li> <li>3. Add 1 drop of the SpectraComp® Flex Multipeak Positive into the bottom of a separate test tube or well of a plate for each fluorophore you will have in the experiment. (1 drop contains approximately <math>1 \times 10^5</math> hydrogels).</li> <li>4. Add your pre-titrated antibody directly to the solution at the bottom of the tube or well and vortex.</li> </ol> <p><b>Note:</b> It is recommended to pre-determine the appropriate titer of the antibody that works best for the application. <b>DO NOT add antibody to the unstained tube.</b></p> <ol style="list-style-type: none"> <li>5. Incubate for 15 - 30 minutes, <b>protected from light.</b></li> </ol>

	<p><b>Note:</b> Hydrogels should generally be treated the same way as cells to be analyzed, i.e. all fixation and permeabilization steps used on cells should be applied to the hydrogels. <b>However, do not add Brilliant Violet Staining Buffer or SuperBright Staining buffer to hydrogels as it raises the background in the violet region.</b></p> <p>6. Wash by adding staining buffer such as PBS with 1% BSA to the tube. We recommend using 2 mL to ensure hydrogels are adequately washed.</p> <p><b>Note:</b> PBS can be used but there is an occasional loss of separation when using plain PBS compared to PBS with protein in it. FBS can be used as an alternative to BSA.</p> <p>7. Centrifuge the tube for 5 minutes at 500 g. Immediately aspirate the supernatant to minimize the hydrogel loss, being careful not to disturb the hydrogel pellet.</p> <p>8. Resuspend the hydrogel pellet in desired stain buffer at preferred volume.</p> <p><b>Note:</b> Protect the samples from light and analyze the samples as soon as possible.</p> <p>9. View and acquire SpectraComp® Flex Multipeak using the same instrument settings as leukocytes.</p> <p>10. Gate on the positive peak that is more suitable for your compensation/unmixing application.</p> <p>11. It is recommended to designate the unstained SpectraComp® Flex Multipeak Negative as an external negative for compensation/unmixing workflows requiring such.</p>
<p>QC Data</p>	<p>Single Stained Positive profile</p>



**Technical Support**

For technical support regarding this product please contact: [support@slingshotbio.com](mailto:support@slingshotbio.com)