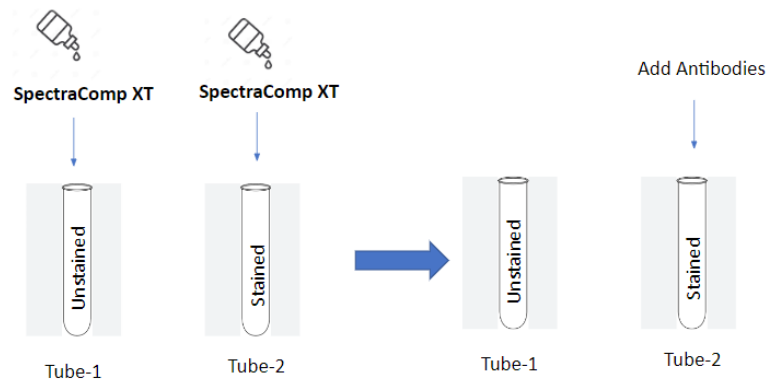


1. Technical Data Sheet

Summary	SpectraComp® XT compensation and unmixing controls are state-of-the-art cell mimics that capture multiple antibody host species (mouse anti-human, mouse, rat, hamster, rabbit and human), and mimic the fluorescence spectra of stained cells.
Application	SpectraComp® XT are intended as compensation and unmixing controls to match the single stained performance of real cells. Staining the capture cell mimics yields a positive fluorescence histogram 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. For Research Use Only. Not for use in diagnostic or therapeutic procedures.
Materials	SpectraComp® XT are cell mimics that are suspended in aqueous solution and are packaged in a convenient dropper bottle. Each drop contains approximately 1 x10 ⁵ cell mimics.
Handling and Safety	No special handling or safety precautions are necessary. See Safety Data Sheet (SDS) at www.slingshotbio.com .
Storage	SpectraComp® XT should be stored at 2-8°C once the product is received.
Expiration	One year from the date of manufacturing.
Instructions for Use	<ol style="list-style-type: none"> 1. Turn on the flow cytometer and allow it to warm up 30 minutes prior to acquisition of samples and controls. 2. Remove SpectraComp® XT vial from the box. 3. Vortex the vial on high for 2 - 3 seconds to resuspend cell mimics. 4. Unscrew the cap on the vial. 5. Add 1 drop of the SpectraComp® XT cell mimics into the bottom of a test tube or well of a plate for each fluorophore you will have in the experiment. <p>Note: If a true negative is desired, then an unstained SpectraComp® XT sample can be acquired and then applied as a universal negative in your compensation/unmixing matrix. For a true negative, add 1 drop of SpectraComp® XT cell mimics into the bottom of a separate test tube or well of a plate for the unstained negative control. DO NOT add antibody to the unstained tube. See the</p>

illustration below.



6. Use the same treatment of SpectraComp® XT as you would with cells (i.e. if you are permeabilizing and fixing your cells, you should treat the SpectraComp® XT exactly the same).
7. Add your pre-titrated antibody to the SpectraComp® XT cell mimics and vortex.
Note: It is recommended to pre-determine the appropriate titer of the antibody that works best for the application.
8. Incubate for 15 - 30 minutes, protected from light.
9. Add 2 ml of 1X PBS containing 0.2% BSA (Bovine Serum Albumin) to the tube.
Note: Staining buffer containing BSA or FBS (Fetal Bovine Serum) can also be used for washing.
10. Centrifuge the tube for 5 minutes at 600 g. Immediately aspirate the supernatant to minimize the cell mimic loss, being careful not to disturb the bead pellet.
Note: For best signal to noise results, use a vacuum aspirator and aspirate off the supernatant as much as possible. Alternatively, perform two washes by repeating steps 5 and 6 leaving approximately 50µl of supernatant in the tube each time.
11. Resuspend the cell mimic pellet in 1X PBS at 200uL or preferred volume. Note: Protect the samples from light and analyze the samples as soon as possible.
12. View and acquire the SpectraComp® XT cell mimics on Forward and Side Scatter parameters (FSC-A and SSC-A) using the **same** instrument settings used for actual cells.
13. For each single stained sample, create a gate on the cell mimic population along the forward and side scatter axes. Then view the cell mimic population in a histogram displaying the proper fluorescence channel for each fluorochrome used. Create one gate on the positive peak and one gate on the negative peak.
Note: If utilizing an unstained negative SpectraComp® XT sample, make sure to apply the unstained sample as a universal negative in your compensation/unmixing matrix.

QC Data

SpectraComp® XT Figure 1 (A, B, C)

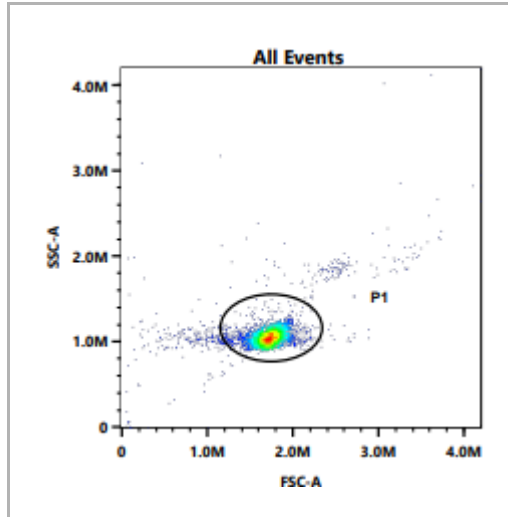


Figure 1. (A) Scatter population of SpectraComp® XT

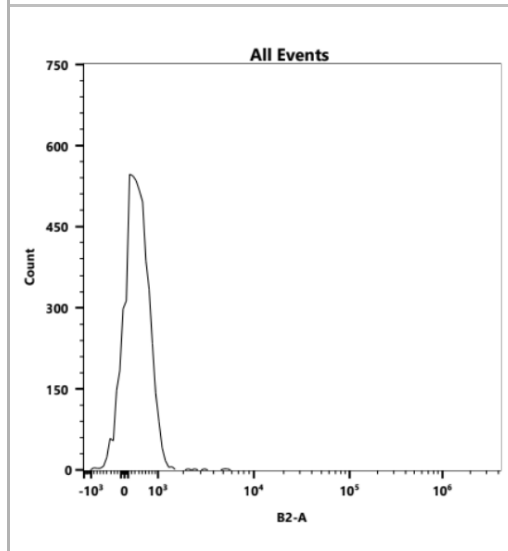


Figure 1. (B) Histogram plot of unstained population of SpectraComp® XT

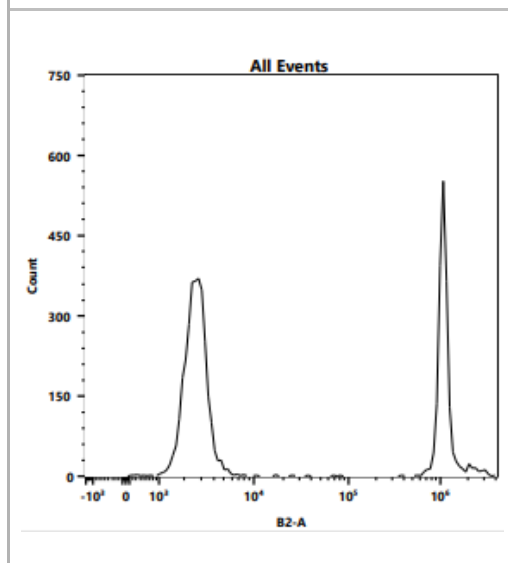


Figure 1. (C) Histogram plot of Negative and Positive SpectraComp® XT stained with a Human IgG1 FITC Isotype Control.

Slingshot Biosciences

TDS-31

SpectraComp XT Compensation Cell Mimics Technical Data Sheet (Catalogue P/N: SSB-21-A, 100 tests)

Version: 1.0