SpectraComp® Compensation Beads
SSB-05-A (25 tests)
SSB-05-B (100 tests)

Summary SpectraComp® compensation controls are state-of-the-art hydrogels that match the scatter of lymphocyte populations, capture multiple antibody host species (mouse, rat, and hamster), and mimic the fluorescence spectra of stained cells.

Application SpectraComp are intended as compensation controls to match the single staining performance of real cells. Staining the capture beads yields a positive and negative fluorescence curve that will aid in resolving the performance of the fluorophore as well as to compensate for spectral overlaps.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

Materials SpectraComp are hydrogels that are suspended in aqueous solution and are packaged in a convenient dropper bottle. Each drop contains approximately 10^5 beads.

Handling & Safety See SDS at www.slingshotbio.com.

Instruction for Use

1. Vortex bottle on high for 2 - 3 seconds to resuspend hydrogel beads.
2. Add 1 drop of capture beads into the bottom of the test tube or FACS tube.
3. Add an appropriate amount of detection antibody to the mixture and vortex.

   Note: It is recommended to determine the titer of the detection antibody that works best for the application.

4. Incubate at room temperature for 15 - 30 minutes, protected from light.
5. Add 2 ml of 1X PBS containing 1%BSA to the tube.

   Note: Staining buffer containing BSA or FBS protein can also be used for washing.

6. Centrifuge the tube for 6 minutes at 600 g and immediately aspirate the supernatant to minimize the bead 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.
7. Resuspend the bead pellet in 1X PBS at preferred volume.

   Note: Protect the samples from light and analyze the samples as soon as possible.

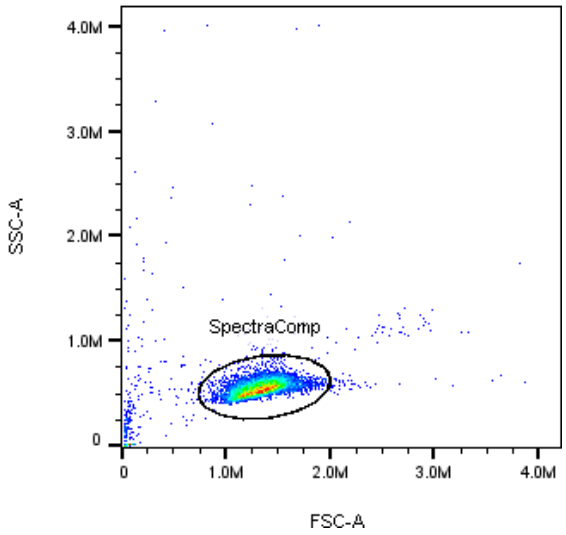
8. View and acquire SpectraComp in FSC-A and SSC-A using the same instrument settings used for actual blood cells. Gate on the bead population.

9. Set up a gate for the appropriate fluorochrome channel to detect positive signals. See Figure 1.

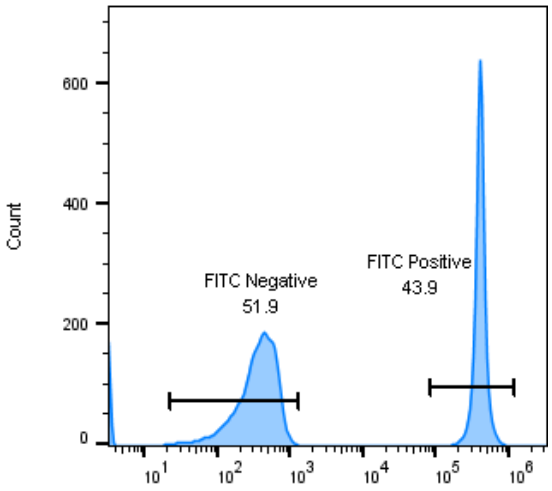
Storage SpectraComp should be stored at 2-8°C once the product is received.

Expiration One year from the date of manufacturing

Figure 1. Gating and detection of SpectraComp hydrogels



A. Gate on scatter population of SpectraComp



B. Histogram plot for anti-human CD3 FITC that shows the positive and negative signal peaks.

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