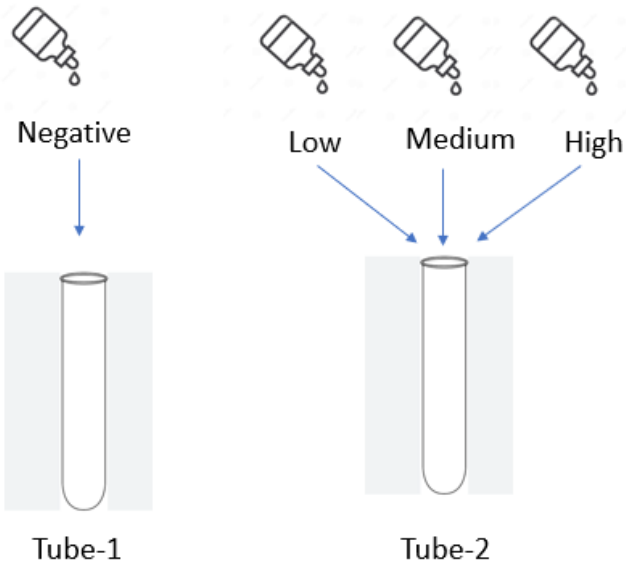
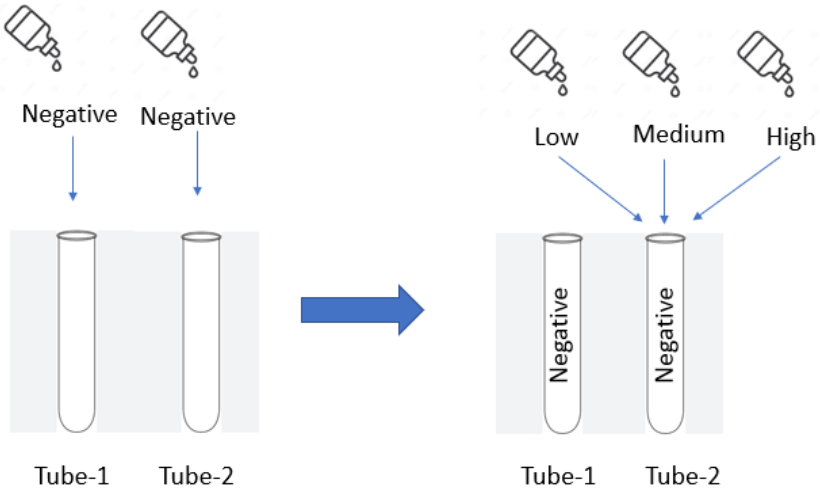
1. Technical Data Sheet

Summary	SpectraComp® eGFP compensation and calibration controls are state-of-the-art cell mimics with actual eGFP presented on the surface.
Application	SpectraComp® eGFP is intended as a compensation and calibration control for cells expressing eGFP protein. SpectraComp® eGFP kit consists of four distinct populations including a negative and three positive levels. Each positive level varies in the number of eGFP proteins, giving each population a distinct fluorescence intensity level. **For Research Use Only. Not for use in diagnostic or therapeutic procedures.**
Materials	SpectraComp® eGFP are cell mimics that are suspended in aqueous solution and are packaged in a convenient dropper bottle. Each drop contains approximately 1 x 10^5 beads.
Handling and Safety	No special handling or safety precautions are necessary. See the Safety Data Sheet (SDS) at www.slingshotbio.com.
Storage	SpectraComp® eGFP should be stored at 2 - 8 °C once the product is received.
Expiration	One year from the date of manufacturing
Instructions for Use	1. Turn on the flow cytometer and allow it to warm up for the appropriate amount of time. 2. Label the required number of tubes and add 150 µl of 1X PBS buffer to each tube. 3. Remove the SpectraComp® eGFP vials from the box. 4. Vortex the vials on high for 2 - 3 seconds to resuspend the cell mimics. 5. Add 1 drop of the negative, low, medium or high beads in the appropriately labeled tubes. See the illustrations below as examples of how the different cell mimic populations can be configured. Do not store cell mimic populations after mixing. Samples are intended to be analyzed immediately after mixing. Configuration 1. One tube containing only negative and one tube

containing only positive(s).

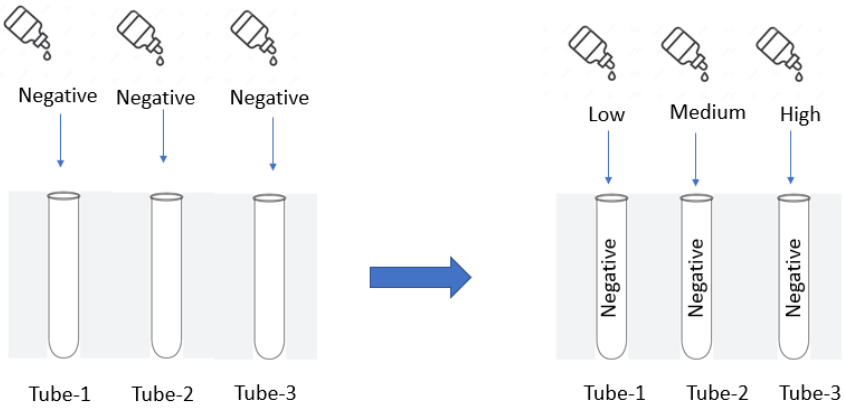


Configuration 2. One tube containing only negative, and one tube containing negative and positive(s).



Configuration 3. One tube containing negative and low positive, one tube containing negative and medium positive, and one tube

containing negative and high positive.



6. Vortex to suspend the cell mimics.
   Note: Protect the samples from light and analyze the samples as soon as possible.
7. Acquire the samples using the same Forward and Side Scatter parameters (FSC-A and SSC-A) as would be used for the actual cells.
8. On the acquisition software, create a gate on the cell mimic population along the forward and side scatter axes (See Figure 1. (A)). Then, gate on the eGFP peaks of interest in the channel typically used for fluorophores emitting in the 511 nm range. (See Figure 1. (B)).

QC Data

Figure 1. SpectraComp® eGFP Figure 1 (A, B)

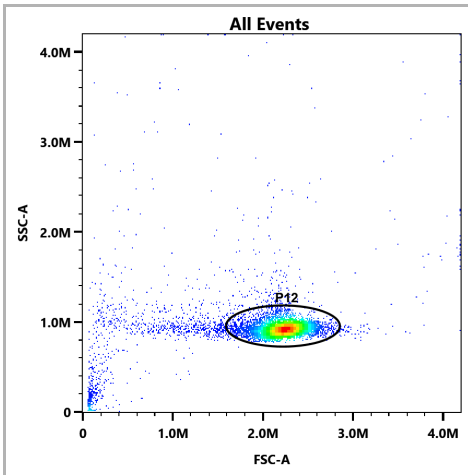


Figure 1. (A) Gate on scatter population of SpectraComp® eGFP

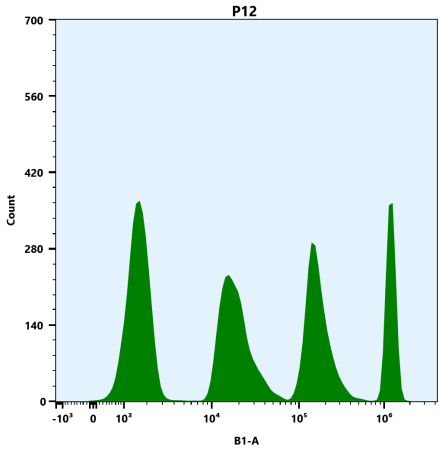


Figure 1. (B) Histogram plot showing negative, low, medium and high signal peaks