ViaComp®
Positive and Negative Viability Beads
SSB-07-A (50 tests)
SSB-07-B (10 tests)

Summary ViaComp® viability controls are advanced 2-in-1 hydrogel beads that bind to both DNA intercalating dyes (7AAD, DAPI, etc) and amine-reactive viability dyes to simulate the viability staining of cells.

Application ViaComps are intended as compensation and assay controls to match the viability staining of real cells. The combination of positive and negative binding beads yields positive and negative fluorescence peaks that will aid in identifying the live and dead cell populations.

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

Materials ViaComps are hydrogels that are suspended in aqueous solution and are packaged in a convenient dropper bottle. Each drop contains approximately 5 x 10^4 beads.

Handling & Safety No special handling or safety precautions are necessary. See SDS at www.slingshotbio.com.

Instruction for Use

Staining with DNA dyes

1. Vortex bottle on high for 2-3 seconds to resuspend hydrogel beads.
2. Add 1 drop of beads into a tube containing **100 µL** of 1X PBS.
3. Add appropriate amounts of DNA dye.
4. Incubate at room temperature for 15 - 30 min on a mixer.
5. Add 1 ml of 1X PBS.
6. Centrifuge the tube for 2 min. at 500 rcf and aspirate off the liquid. Be careful to not disturb the bead pellet.
7. Resuspend the beads in 100 µL of 1X PBS.
8. View and acquire ViaComp in FSC-A and SSC-A using the same instrument settings as real whole blood cells. Gate on the bead population.
9. Set up a gate for the appropriate fluorochrome channel to detect positive signals.
10. For best results, set the flow rate on the cytometer to low.

Staining with Amine-reactive dyes

1. Vortex bottle on high for 2-3 seconds to resuspend hydrogel beads.
2. Add 1 drop of beads into a tube containing **1 ml** of 1X PBS.
3. Add appropriate amounts of amine-reactive dye.
4. Incubate at room temperature for at least 30 min on a mixer.
5. Centrifuge the tube for 2 min. at 500 rcf and aspirate off the liquid. Be careful to not disturb the bead pellet.
6. Wash by resuspending the bead pellet in 1 ml of 1X PBS and then vortex.
7. Centrifuge and aspirate as in Step 5.
8. Resuspend the beads in 100 µL of 1X PBS.
9. View and acquire ViaComp in FSC-A and SSC-A using the same instrument settings as real whole blood cells. Gate on the bead population.
10. Set up a gate for the appropriate fluorochrome channel to detect positive signals.
11. For best results, set the flow rate on the cytometer to low.

Storage	ViaComp should be stored at -20°C once the product is received. 24 hours before its intended use, store it at 2-8°C to thaw. Once thawed, store at 2-8°C.
Expiration	One year from the date of manufacturing. (DOM)
Shelf Life	Six months from the date of thaw. *

*Follow the Expiration date if it is shorter

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