ViaComp® Positive and Negative Viability Cell Mimics Technical Data Sheet (Catalogue P/N: SSB-07-A, 50 tests)

Version: 7.0

## 1. Technical Data Sheet

Summary	ViaComp <sup>®</sup> viability controls are advanced 2-in-1 cell mimics that bind to both DNA-intercalating dyes and amine-reactive viability dyes to simulate the viability characteristics of cells.
Application	$\sf ViaComp^{\it \it $
	Note: ViaComp <sup>®</sup> performance has been verified and validated on analytical flow cytometers and not on cell sorters.
	For Research Use Only. Not for use in diagnostic or therapeutic procedures.
Materials	ViaComp <sup>®</sup> viability controls are cell mimics that are suspended in aqueous solution and are packaged in a convenient dropper bottle. Each drop contains approximately $6.6 \times 10^4$ cell mimics.
Handling and Safety	No special handling or safety precautions are necessary. See SDS at www.slingshotbio.com.
Instructions for Use	Staining with DNA dyes
	1. Allow ViaComp® to warm up to room temperature before staining.
	2. Vortex the ViaComp® bottle on high for 2-3 seconds to resuspend the cell mimics.
	3. Add 1 drop of cell mimics into the tube (Ensure the drop goes to the bottom of the tube). Add 1x PBS according to desired dilution for DNA-binding dye.
	4. Add desired amounts of DNA-binding dye to the tube.
	Note: It is recommended to determine the titer of the viability dye that works best for your application.
	5. Incubate at room temperature for 10-30 min.
	Note: Refer to the specific vendor's instructions for the incubation time if different.
	time if different.
	6. Centrifuge the tube for 5-6 minutes at 500 x g. Remove excess supernatant without disturbing the bead pellet.

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- 7. Wash by resuspending the bead pellet in 2 ml of 1% BSA in 1x PBS or desired staining buffer and then vortex.
- 8. Repeat steps 6 and 7 to wash particles thoroughly. Resuspend the cell mimics in desired volume of staining buffer.
- 9. View and acquire ViaComp® using the same FSC and SSC settings as leukocytes.
- 10. For best resolution, use a low flow rate on your cytometer.

## **Staining with Amine-reactive dyes**

- 1. Allow ViaComp® to warm up to room temperature before staining.
- 2. Vortex the ViaComp® bottle on high for 2-3 seconds to resuspend the cell mimics in the buffer.
- 3. Add 1 drop of cell mimics into the tube (Ensure that the drop goes to the bottom of the tube). Add 1x PBS according to desired dilution for aminereactive dye.
- 4. Add desired amount of amine-reactive dye to the tube.

Note: It is recommended to determine the titer of the viability dye that works best for your application.

5. Incubate at room temperature for 20-30 min.

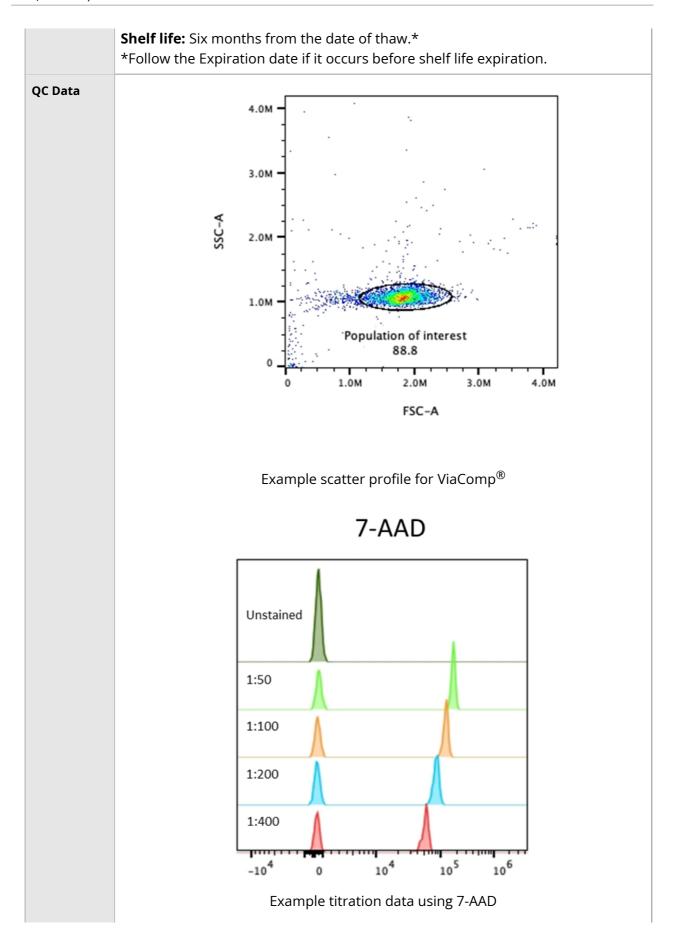
Note: Refer to the vendor's instructions for the incubation time if different.

- 6. Centrifuge the tube for 5-6 minutes at  $500 \times g$ . Remove excess supernatant without disturbing the bead pellet.
- 7. Wash by resuspending the bead pellet in 2 ml of 1% BSA in 1x PBS or desired staining buffer and then vortex.
- 8. Repeat steps 6 and 7 to wash particles thoroughly. Resuspend the cell mimics in desired volume of staining buffer.
- 9. View and acquire ViaComp® using the same FSC and SSC settings as leukocytes.
- 10. For best resolution, use a low flow rate on your cytometer.

## ViaComp<sup>®</sup> 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 24 months from the date of manufacturing. (DOM);

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