Version: 5.0

Slingshot Biosciences TDS-36

ViaComp® Flex, Positive and Negative Viability Cell Mimics Technical Data Sheet for SSB-28-A, 50 tests

1. Technical Data Sheet

ViaComp® Flex controls consist of separate positive and negative cell mimics. Positive cell mimics bind to both DNA-intercalating as well as amine-reactive viability dyes to simulate the viability characteristics of the cells. Negative cell mimics are designed to be acquired separately to maximize signal-to-noise ratio. ViaComp® Flex is intended to be used as single-stain and assay controls to simulate the viability characteristics of the cells. The positive and negative peaks can aid in identifying live and dead cell populations. Note: ViaComp® Flex 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. ViaComp® Flex viability controls are cell mimics suspended in aqueous solution and are packaged in a convenient dropper bottle. Each drop contains		
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Materials solution and are packaged in a convenient dropper bottle. Each drop contains	Application	simulate the viability characteristics of the cells. The positive and negative peaks can aid in identifying live and dead cell populations. Note: ViaComp® Flex performance has been verified and validated on analytical flow cytometers and not on cell sorters.
approximately 6.6 x 10 ° ceil mimics.	Materials	· · · · · · · · · · · · · · · · · · ·
Handling And Safety No special handling or safety precautions are necessary. See SDS at www.slingshotbio.com.	_	
ViaComp [®] Flex 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.	Storage	24 hours before its intended use , store it at 2-8 °C to thaw.
24 months from the date of manufacturing (DOM); Shelf life: Six months from the date of thaw.* *Follow the Expiration date if it occurs before shelf life expiration	Expiration	Shelf life: Six months from the date of thaw.*
Instructions Staining with DNA dyes	Instructions for Use	Staining with DNA dyes
1. Allow ViaComp [®] Flex bottles to warm up to room temperature before staining.		· · · · · · · · · · · · · · · · · · ·
2. Vortex the ViaComp [®] Flex bottles on high for 2-3 seconds to resuspend the cell mimics.		·
3. Add 1 drop of positive cell mimics to a tube and 1 drop of negative mimics to a separate tube. Ensure that each drop goes to the bottom of the respective tube. Add 1x PBS according to desired dilution for DNA-binding dye.		mimics to a separate tube. Ensure that each drop goes to the bottom of the respective tube. Add 1x PBS according to desired dilution for
4. See the illustration below as an example		4. See the illustration below as an example

Tube-2

Tube-1

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Tube-1

ViaComp® Flex

ViaComp® Flex

Positive

5. Add desired amounts of DNA dye to the positive tube.

Tube-2

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

6. Incubate at room temperature for 10-30 min, protected from light

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

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

Staining with Amine-reactive dyes

- 1. Allow ViaComp[®] Flex bottles to warm up to room temperature before staining.
- 2. Vortex the $ViaComp^{\mbox{\it @}}$ Flex bottles on high for 2-3 seconds to resuspend the cell mimics in the buffer.
- 3. Add 1 drop of positive cell mimics to a tube and 1 drop of negative mimics to another tube. Ensure that each drop goes to the bottom of the respective tube. Add 1x PBS according to desired dilution for amine-reactive dye.
- 4. Add desired amount of amine-reactive dye to the positive tube.

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

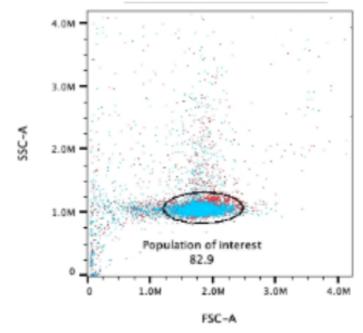
5. Incubate at room temperature for 20-30 min protected from light.

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

- 6. Centrifuge the tube for 5-6 min at $500 \times g$. Remove excess supernatant without disturbing the bead pellet.
- 7. Wash by resuspending the bead pellet in 2 ml of 1X PBS with 1% BSA or desired stain 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 positive and negative ViaComp[®] Flex particles using the same FSC and SSC settings as leukocytes.
- 10. For best resolution, use a low flow rate on your cytometer.

QC Data

Overlay of Positive and Negative Cell Mimics

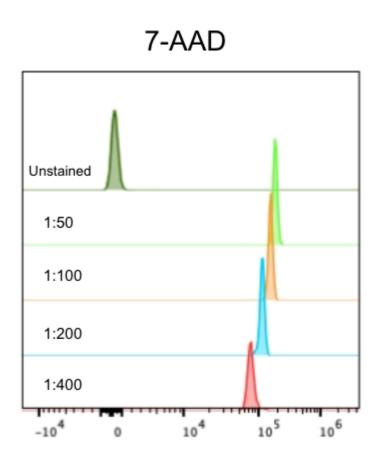


Example scatter profile for positive and negative ViaComp® Flex populations

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Example titration data using 7-AAD

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