VersaComp Antibody Capture Bead Kit

REF B22804 - 100 Tests

PN B25652-AA

For Laboratory Use Only.
Not for use in diagnostic procedures.

PRODUCT DESCRIPTION

The VersaComp Antibody Capture Bead Kit contains two vials of 3.0-3.4 µm beads in suspension at a concentration of approximately 1 x 10^7 particles/mL. VersaComp Antibody Capture Negative Beads acts as a negative control and does not bind fluorochrome-conjugated antibodies. VersaComp Antibody Capture Positive Beads contains beads coated with an IgG-binding agent that will bind all mouse and rat isotypes, as well as Syrian and Armenian hamster IgG and rabbit polyclonal antibodies.

SUMMARY AND EXPLANATION

For multicolor applications, compensation must be optimized to obtain consistent and reliable results. VersaComp beads are designed to capture dye-conjugated antibodies to provide a fluorescent signal that can be detected by a flow cytometer. These signals are used by acquisition or analysis software to generate a compensation matrix.

REAGENTS

The VersaComp Antibody Capture Bead Kit contains the following:

VersaComp Antibody Capture Negative Beads – 1 x 5 mL vial

VersaComp Antibody Capture Positive Beads – 1 x 5 mL vial

The beads are suspended in a storage buffer containing 0.016 M PBS, 0.2% BSA and 0.02% Sodium Azide.

STATEMENT OF WARNINGS

1. These reagents contain 0.02% sodium azide. Sodium azide under acid conditions yields hydrazoic acid, an extremely toxic compound. Azide compounds should be flushed with running water while being discarded. These precautions are recommended to avoid deposits in metal piping in which explosive conditions can develop. If skin or eye contact occurs, wash excessively with water.
2. Ensure the beads are completely resuspended before use. They may settle over extended periods of time.
3. Minimize exposure of reagents to light during storage or use.
4. Use Good Laboratory Practice (GLP) when handling this reagent.

STORAGE CONDITIONS AND STABILITY

These reagents are stable to the expiration date on the vial label when stored at 2-8°C. Do not freeze. Minimize exposure to light. Opened vials must be refrigerated after use and are stable to the expiration date on the vial label.

EVIDENCE OF DETERIORATION

Inability to obtain expected results may indicate product instability or deterioration. Product deterioration may be indicated by a lack of a fluorescent signal from the stained capture beads, or the positive signal cannot be differentiated from the negative signal.

REAGENT PREPARATION

Proper resuspension of the individual kit components is required prior to use.

Materials Required But Not Supplied

Appropriately sized test tubes

Flow cytometer

Vortex Mixer

Centrifuge

Staining Buffer – 1 x PBS at pH 7.4 with 0.02% Sodium Azide and 0.2% BSA

PROCEDURE FOR BEAD STAINING

1. Add one drop of negative beads and one drop of positive beads to each test tube.
2. Place single color antibody conjugates into individual, labeled test tubes at the antibody concentration used for your application and vortex immediately.
3. Incubate at room temperature in the dark for 20 minutes.
4. Add 1 mL of buffer to each test tube, vortex and centrifuge at 300 x G for 6 minutes. For best results, use the staining buffer described in the "Materials Required But Not Supplied" section for this step.
5. Decant the supernatant and resuspend the beads in 600 µL of staining buffer.

PROCEDURE FOR USE

1. Create an acquisition protocol with a FS (Lin) vs. SS (Lin) dot plot and either single color histograms or dual color dot plots for each relevant fluorescence channel. On the FS vs. SS dot plot, create a region to capture the singlet bead population and gate all fluorescence plots/histograms based on this region. Set the protocol to collect 10,000 beads.

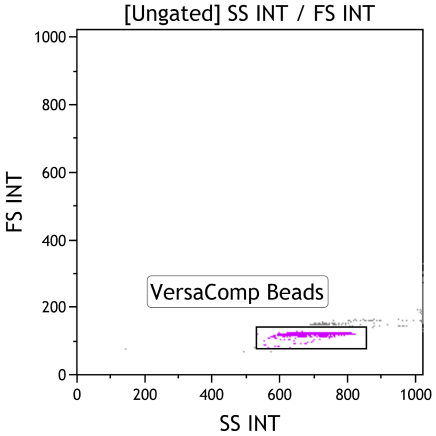
   NOTE: Verify that the discriminator is low enough to detect the singlet bead population.

2. Using cytosettings optimized for your application, run each of the stained bead samples and ensure that the positive signals are on scale.
3. Generate a compensation matrix using acquisition and/or analysis software.

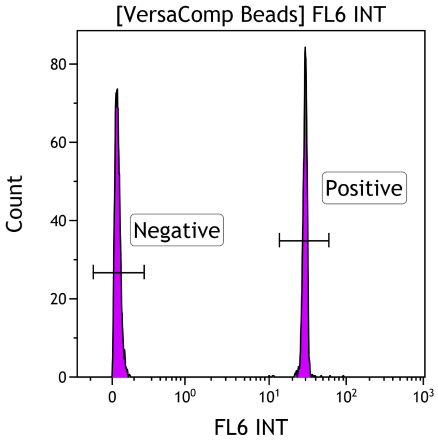
   NOTE: If large amounts of doublets and triplets are visible in the FS vs SS histogram, sonicate the stained sample for 15-20 seconds and reanalyze.

Figures 1a and 1b:
Figures 1a and 1b are an example of scatter gating and fluorescence profile.

1a



1b



PRODUCT AVAILABILITY

VersaComp Antibody Capture Bead Kit
REF B22804 - 2 x 5 mL

TRADEMARKS

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For additional information, or if damaged product is received, call Beckman Coulter Customer Service at 800-526-7694 (USA or Canada) or contact your local Beckman Coulter Representative.

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