

Monoclonal
Antibodies
Detecting
Human
Antigens

BD FACSTM Permeabilizing Solution 2

Form	Catalog number
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Permeabilizing Solution 2, 500 Tests	340973
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Permeabilizing Solution 2, 200 Tests	347692
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Product availability varies by region. Contact BD Biosciences Customer Support or your local sales representative for information.

RESEARCH APPLICATIONS

Research applications include:

- Intracellular staining of antigens, cytokines and other proteins^{1–10}

DESCRIPTION

BD FACSTM Permeabilizing Solution 2 (10X) is a premixed concentrate formulated specifically for use in flow cytometry. It is intended for the permeabilization of lymphocyte membranes prior to intracellular immunofluorescence staining with monoclonal antibodies. This formulation is designed for antigen-specific activation applications.

Composition

BD FACS Permeabilizing Solution 2 is provided as a buffered solution containing <15% formaldehyde and <50% diethylene glycol and a proprietary permeabilizing agent.

PROCEDURE

Visit our website (bdbiosciences.com) or contact your local BD representative for the lyse/wash protocol for direct immunofluorescence.

Dilute 10X solution 1:10 in deionized (DI) water. Do not dilute in phosphate buffered saline (PBS) or other buffers.

Method for Intracellular Staining

Visit our website (bdbiosciences.com) or contact your BD representative for the BD intracellular staining procedure.

Abbreviated Intracellular Staining Procedure: Add 1 mL of 1X BD FACSTM lysing solution (Cat. No. 349202) to 100 mL of activated heparinized whole blood. Incubate 10 minutes at room temperature. Centrifuge at 500 x g for 5 minutes; decant the supernatant. Add 0.5 mL of 1X BD FACS Permeabilizing Solution 2. Vortex and incubate for 10 minutes at room temperature. Wash by adding PBS containing 0.5% bovine serum albumin (BSA) and 0.1% sodium azide (NaN₃), and centrifuge for 5 minutes. Add appropriate volume of fluorescent-conjugated intracellular antibody. Vortex and incubate for 30 minutes at room temperature in the dark. Repeat wash step. Resuspend cells in 1% paraformaldehyde in PBS.

REPRESENTATIVE DATA

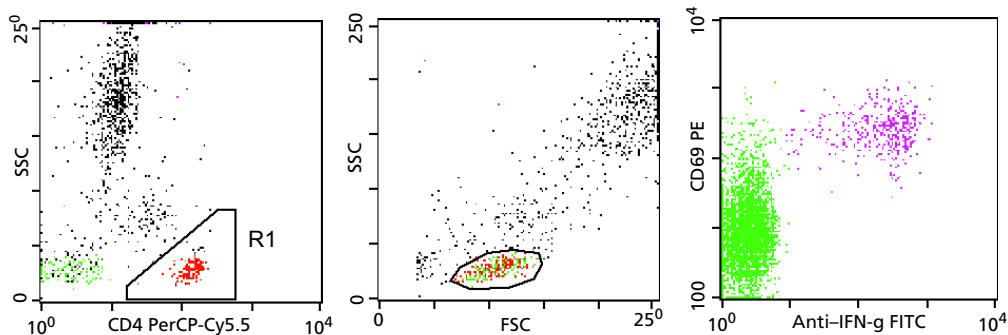
Flow cytometric analysis was performed on CMV-activated whole blood stained with BD FastImmune™ Anti-Hu-IFN-g FITC/ CD69 PE/CD4 PerCP-Cy™5.5. Laser excitation was at 488 nm. Representative data analyzed with a BD FACSTM brand flow cytometer is shown in the following plots.

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

Becton, Dickinson and Company
BD Biosciences
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San Jose, CA 95131 USA



Figure 1 Two-parameter displays of platelets analyzed with a BD FACS brand flow cytometer



HANDLING AND STORAGE

BD FACS Permeabilizing Solution 2 (10X) is stable for the period shown on the bottle label when stored as directed. Do not use this reagent if discoloration occurs or a precipitate forms. Store 1X solution at room temperature for up to 1 month.

WARNING

All biological specimens and materials coming in contact with them are considered biohazards. Handle as if capable of transmitting infection^{11,12} and dispose of with proper precautions in accordance with federal, state, and local regulations. Never pipette by mouth. Wear suitable protective clothing, eyewear, and gloves.

BD FACS™ Permeabilizing Solution 2 contains 30.0% diethylene glycol, CAS number 111-46-6, 9.99% formaldehyde, CAS number 50-00-0, and 3.51% methanol, CAS number 67-56-1.



Danger
H311 Toxic in contact with skin.
H331 Toxic if inhaled.



H341 Suspected of causing genetic defects.
H350 May cause cancer. Route of exposure: Inhalative.
H371-H335 May cause damage to organs. May cause respiratory irritation.
H373 May cause damage to the kidneys through prolonged or repeated exposure. Route of exposure: Oral.



H318 Causes serious eye damage.



H302 Harmful if swallowed.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.

Wear protective gloves / eye protection. Wear protective clothing. Avoid breathing mist/vapours/spray. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

CHARACTERIZATION

To ensure consistently high-quality reagents, each lot of antibody is tested for conformance with characteristics of a standard reagent. Representative flow cytometric data is included in this data sheet.

WARRANTY

Unless otherwise indicated in any applicable BD general conditions of sale for non-US customers, the following warranty applies to the purchase of these products.

THE PRODUCTS SOLD HEREUNDER ARE WARRANTED ONLY TO CONFORM TO THE QUANTITY AND CONTENTS STATED ON THE LABEL OR IN THE PRODUCT LABELING AT THE TIME OF DELIVERY TO THE CUSTOMER. BD DISCLAIMS HEREBY ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR ANY PARTICULAR PURPOSE AND NONINFRINGEMENT. BD'S SOLE LIABILITY IS LIMITED TO EITHER REPLACEMENT OF THE PRODUCTS OR REFUND OF THE PURCHASE PRICE. BD IS NOT LIABLE

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