
eBioscience™ 1-step Fix/Lyse Solution (10X)

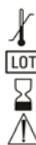
Catalog Number: 00-5333

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

Product Information

Contents: eBioscience™ 1-step Fix/Lyse Solution (10X)
Catalog Number: 00-5333
Handling Conditions: Use within 6 months of opening or by date indicated on the bottle

REF



Temperature Limitation: Store at 2-8°C.

Batch Code: Refer to vial

Use By: Refer to vial

Contains 10% formaldehyde and 30% diethylene glycol

Description

The eBioscience 1-step Fix/Lyse Solution enables lysis of red blood cells after staining peripheral blood cells with fluorochrome-conjugated antibodies. This solution has been specially formulated to lyse non-nucleated erythrocytes while maintaining a fixed and labeled leukocyte population. Therefore, whole blood samples can be stained for the appropriate markers, RBC-lysed and fixed, washed, and then analyzed by flow cytometry. Isolation of mononuclear cells by gradient centrifugation (e.g. Ficoll-Paque density gradient separation) is not required when using this solution. The eBioscience 1-step Fix/Lyse Solution is compatible with antibodies conjugated to organic dyes and tandem dyes.

Applications Reported

The eBioscience 1-step Fix/Lyse Solution has been reported for use in flow cytometric analysis.

Applications Tested

The eBioscience 1-step Fix/Lyse Solution has been tested by flow cytometric analysis of normal human, mouse, rat, and non-human primate (rhesus macaque) peripheral blood cells. This is a 10X solution and should be diluted to 1X using reagent-grade water. Use the 1X solution within 1 month of preparation.

Related Products

11-9459 CD45 Monoclonal Antibody (2D1), FITC, eBioscience™ TDS DISABLED: ABMAINT SKU (2D1)
46-0037 CD3 Monoclonal Antibody (OKT3), PerCP-eFluor 710, eBioscience™ TDS DISABLED: ABMAINT SKU (OKT3)
48-0199 CD19 Monoclonal Antibody (HIB19), eFluor 450, eBioscience™ TDS DISABLED: ABMAINT SKU (HIB19)

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1-step Fix/Lyse Solution (10X)

Introduction

The 1-step Fix/Lyse Solution enables lysis of red blood cells from whole blood samples after staining peripheral blood cells with fluorochrome conjugated antibodies. This solution lyses and fixes non-nucleated erythrocytes while maintaining labeled leukocyte population.

General Notes

1. Please use caution when handling. Product contains formaldehyde.
2. Before using, Thermo Fisher 1-step Fix/Lyse Solution (10X) must be diluted to 1X with room temperature, reagent grade water.

Protocol

Materials Needed

- Reagent-grade water
- Fluorochrome-conjugated antibodies, as desired
- Flow Cytometry Staining Buffer (Cat. No. 00-4222)

Experimental Procedure

1. To 100 μ L of whole blood, add the appropriate antibodies needed for staining and mix thoroughly.
Please refer to Staining Cell Surface Antigens for Flow Cytometry Protocols (Protocol B) found in our Best Protocols section.
Note: *Thermo Fisher 1-step Fix/Lyse Solution has been shown to work equivalently in blood collected with either heparin or EDTA as the anticoagulant.*
2. Incubate for 30 minutes in the dark at room temperature.
3. Add 2 mL of room temperature, 1X 1-step Fix/Lyse Solution, then vortex or invert gently.
4. Incubate for 15 to 60 minutes at room temperature in the dark.
5. [Optional] Samples can be stored in buffer for up to 48 hours at 2-8°C and protected from light. This will have minimal effect on brightness and tandem fluorochromes are also stable, but we recommend having single-color stained samples stored under the same conditions to set compensation.
6. Centrifuge at 500 \times g for 5 minutes at room temperature. Decant the supernatant.
7. Wash 1X with 2 mL of Flow Cytometry Staining Buffer and centrifuge as in Step 6. Decant the supernatant.
8. Resuspend the cell pellet in 200 μ L of Flow Cytometry Staining Buffer.
9. Analyze samples by flow cytometry.

Note: *Intracellular antigens can be stained after Step 4, but will require permeabilization. We recommend the use of Permeabilization Buffer (10X) (Cat. No. 00-8333). It is important to make sure the specific antibody will work after this type of fixation. Refer to the Intracellular Staining Buffer Selection Guide on the Thermo Fisher website and the "Fixation & Permeabilization" column for antibodies that will work under these fixation conditions.*

Documentation and support

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 - Product FAQs
 - Software, patches, and updates
- Order and web support
- Product documentation, including:
 - User guides, manuals, and protocols
 - Certificates of Analysis
 - Safety Data Sheets (SDSs; also known as MSDSs)

Note: For SDSs for reagents and chemicals from other manufacturers, contact the manufacturer.

Limited product warranty

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