Datasheet

Erythrocyte Lysis Buffer (1x)

Product	Description	Catalogue-No.	Size
Erythrocyte Lysis Buffer (1x)	**Buffer solution for Erythrocyte Lysis**	**P10-90100** **P10-90500**	**100 ml** **500 ml**

Product description

In normal whole-blood erythrocyte concentration is a thousand-fold higher than leucocyte-contentration and are an impediment for investigation or analysis of leucocytes. Erythrolyse buffers or Red-Cell-Lysing-Buffer is intended for the lysis of red blood cells in samples with white blood cells as for example EDTA-/citrate/heparin-treated whole-blood, Buffy Coats (PBMCs, leucocyte films), bone marrow. Red-Blood-Cell-Lysis-Buffer is specially used for lysing human erythrocytes in single-cell suspensions of peripheral blood and mouse hematopoietic tissues such as spleen.

This buffer contains ammonium chloride, which lyses red cells, with minimal effect on lymphocytes when used as instructed. Nucleated red cells are not effectively lysed with ammonium chloride.

Storage conditions

Storage: 2°C to RT
Stability: 2 years from date of production
Size: 100 ml and 500 ml, other sizes on request

Composition

This buffer contains ammonium chloride (NH_4Cl), potassium hydrogencarbonate ($KHCO_3$) and Ethylenediaminetetraacetic acid (EDTA). Erythrocyte Lysis Buffer 1x is sterile filtered (0.2 µm) and contains no fixative and no preservatives.

Special Advantages

- Ready to use
- Easy application
- Minimal effect on lymphocytes

Application

Removal of red blood cells (RBCs) from samples is a necessary step prior to flow cytometric analysis, immunophenotyping, immunofluorescence staining, cell culture, cytospin, cytogenetics and cell sorting.

Instructions for use:

PAN-Biotech Red-Cell-Lysing-Buffer is designed for use in whole blood. This buffer contains ammonium chloride, which lyses red cells with minimal effect on lymphocytes when used as instructed.

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Procedure

1. Collect whole blood by venipuncture in EDTA- or heparin-treated collection tubes
2. Aliquot 1ml blood into 15 ml conical centrifuge tube
3. Add 8-10 ml lysing solution buffer to tube
4. Gently mix the cells and incubate for ~ 15 minutes at room temperature
   Lysis of the red cells should be evident during this incubation
   Wait until the liquid is clear red
5. Centrifugation at 300 x g for 5 minutes
6. Aspirate the supernatant, avoid disturbing the pellet
7. Resuspend cells by raking gently across a tube rack
8. If the pellet is red
   wash it with 1-2ml Erythrocyte Lysis Buffer (1x) for 5 minutes at room temperature
   and go back to step 5
9. wash cells with 5 ml cold Buffer (e.g. Hank's Balanced Salt Solution or PBS with 1% FBS)
10. Spin, decant, and resuspend
11. The cells are ready for further analysis

Technical support

For technical support, questions or remarks please contact your local PAN-Biotech partner or the technical department of PAN-Biotech via email (info@pan-biotech.com) or phone +49-8543-601630.

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