

ECM0030D

Erythrocyte Lysis Buffer

Description	Erythrocyte Lysis Buffer
Format	100 ml
Producer	Euroclone
Code Producer	

Product description:

The product is intended for the lysis of red blood cells in samples containing white blood cells such as whole blood treated with EDTA / citrate / heparin, Buffy Coats (PBMC, leukocyte film), bone marrow. Erythrocyte Lysis Buffer is particularly used for the lysis of human erythrocytes in single-cell suspensions of peripheral blood and to treat mouse hematopoietic tissues such as the spleen.

Composition

This buffer contains ammonium chloride (NH₄Cl), potassium hydrogen carbonate (KHCO₃) and ethylenediaminetetraacetic acid (EDTA). Erythrocyte Lysis Buffer 1x is sterilized by filtration (0.2 µm) and does not contain fixatives and preservatives.

Applications:

The removal of red blood cells (RBCs) from biological samples finds applications in flow cytometry, immunophenotyping, immunofluorescence staining, cell cultures, cytopsin, cytogenetics and cell sorting.

Storage conditions:

Storage: from 2 ° C to RT

Stability: 2 years from the production date

Instructions for Use:

Erythrocyte Lysis Buffer is designed for use on whole blood. This swab contains ammonium chloride, which breaks down red blood cells with minimal effect on lymphocytes when used as directed.

Suggested protocol

1. Collect venous whole blood in collection tubes containing EDTA or heparin
2. Place 1 mL of blood in a 15 mL conical centrifuge tube



3. Add 8-10 mL of Erythrocyte Lysis Buffer to the tube
4. Gently mix the cells and incubate for ~ 15 minutes at room temperature. Lysis of red blood cells should be evident during this incubation
Wait for the liquid to turn light red.
5. Centrifugation at 300 x g for 5 minutes
6. Aspirate the supernatant, avoid disturbing the pellet
7. Resuspend the cells gently
8. If the pellet is red wash it with 1-2 ml of Erythrocyte Lysis Buffer for 5 minutes at room temperature and return to step 5
9. Wash the cells with 5 ml of cold buffer solution (eg Hank's Balanced Salt Solution or PBS with 1% FBS)
10. centrifuge briefly, decant and resuspend
11. Cells are ready for further analysis

The product is intended for research use, not for drugs production, or for use on humans or in the veterinary field.

Euroclone S.p.A.