

RBC Lysis Buffer

erythrocyte lysate

Item No. R665528 (100ml)

Storage conditions: room temperature (15-30° C)

Product content

individual parts making up a compound	R665528 100 ml
RBC Lysis Buffer	100 ml

Product Introduction

This product is used to cleave red blood cells by utilizing the principle that the difference in salt ion concentration between inside and outside the cell can lead to the swelling of the cell membrane. It is mainly used for the removal of red blood cells in experiments, such as: the separation and purification of lymphocytes, the separation and purification of tissue cells dispersed by enzyme digestion and the removal of red blood cells in experiments such as the extraction of tissue cell proteins and nucleic acids.

Instructions for use:

1. Add 3 times the volume of RBC lysate to 1 times the volume of fresh whole blood (e.g., 3 ml of RBC lysate to 1 ml of fresh whole blood) and mix gently by vortexing or inverting.

Note: If fresh tissue cells are processed, trypsin or other digestive enzymes should be used to make a single cell suspension, and the cells should be centrifuged for collection before proceeding.

2. Incubate on ice for 15 minutes, vortexing gently twice. Note: After lysis of erythrocytes, the solution should be clear and transparent.

3. Centrifuge at 450 x g for 10 minutes at 4° C to collect the leukocytes and carefully discard the supernatant.

4. Add twice the volume of erythrocyte lysate to the above precipitate and gently vortex to resuspend the leukocytes (if the starting blood is 1 ml, add 2 ml of erythrocyte lysate).

5. Collect the leukocytes by centrifugation at $450\times g$ for 10 minutes at 4°C . Carefully and thoroughly aspirate the supernatant.
6. Resuspend the cells for subsequent experiments. Note: If RNA is extracted, it is best to use an RNase-free solution from this step onwards .