MQ Red Blood Cells Lysis Buffer (RBC Lysis Buffer)

Cat No. RCL-M-100

Description

MQ RBC Lysis Buffer uses the principle that the salt ion concentration inside and outside the cell causes the cell membrane to burst to split non-nucleated red blood cells.
This lysis buffer has been treated aseptically and is mainly used for the separation and purification of histiocytes digested and dispersed by enzymes, the separation and purification of lymphocytes, and the removal of red blood cells in experiments such as the extraction of histiocytic protein and nucleic acid.

Protocol

1. Mix 1 volume of fresh whole blood with 3 volumes of MQ Red Blood Cell Lysis Buffer. For example, add 3ml of MQ RBC Lysis Buffer to 1ml of fresh whole blood, gently swirl or reverse mix.
2. Place on ice for 15 minutes, during which gently swirl and mix twice, after the red blood cells are cracked, the solution should be clear and transparent.
3. Cell collection: Centrifuge at 4℃, 450×g for 10 min to precipitate white blood cells, and carefully aspirate and discard the supernatant.
4. Add twice the volume of MQ RBC Lysis Buffer to the white blood cell precipitation, and gently scroll to fully reinsert the white blood cells. If the starting blood is 1ml, add 2ml of MQ RBC Lysis Buffer.
5. Centrifuge at 450 Xg at 4 ℃, for 10 min to precipitate white blood cells, carefully and thoroughly aspirate the supernatant.
6. Resuspension cells for follow-up experiments; For RNA extraction, it is best to start with a solution prepared with DEPC water at this step.

(Histocellular treatment: Fresh tissue is digested by pancreatic enzyme or collagenase and dispersed into a single cell suspension, and the supernatant is discarded by centrifugation, and the rest are the same as above.)

Note:

This MQ RBC Lysis Buffer is a sterile product. Please pay attention to aseptic operation when separating cells for cell culture.
For your safety and health, please wear a lab coat and disposable gloves.

STORAGE

Store at 15-25°C.

For laboratory use only. Not intended for human therapeutic or diagnostic use.