

***ClearBand* 10x Red Blood Cell Lysis Buffer**

100 ml

Cat No: RBCLB-10x

Shipping : Ship at ambient temperature.

Storage : Store between 2-8°C.

General Information

ClearBand 10x Red Blood Cell Lysis Buffer is prepared using molecular biology grade ammonium chloride in ultrapure water. It is formulated for effective and quick lysis of red blood cells with little to no effect on leukocytes. *ClearBand* 10x Red Blood Cell Lysis Buffer should be diluted in double-distilled water prior to use.

Protocol

Important: It is recommended to dilute the *ClearBand* 10x Red Blood Cell Lysis Buffer just prior to use. pH of the diluted solution should be between 7.1-7.4. Adjust the pH if necessary. Warm the 1x working solution to room temperature prior to use.

Note that the blood should be fresh and at room temperature. Blood samples should have been collected in a tube containing EDTA or any other anticoagulant.

1. Dilute the *ClearBand* 10x Red Blood Cell Lysis Buffer to a 1x working solution by adding 1 part *ClearBand* 10x Red Blood Cell Lysis Buffer to 9 parts room temperature double-distilled water. Warm the solution to room temperature.
2. Transfer up to the fresh whole blood sample into a 50 ml falcon tube. Add diluted 1x *ClearBand* Red Blood Cell Lysis Buffer at a ratio of approximately 1 part blood to 6 parts lysis buffer.
3. Invert the tube to mix and incubate for 10 minutes at room temperature protected from light. Invert the sample at regular intervals by hand. Do not vortex.
4. Centrifuge the tube at 1500 rpm for 5 minutes. Carefully remove and discard the clear, red supernatant without disturbing the cell pellet.
5. Gently resuspend the pellet in 1 ml of diluted 1x *ClearBand* Red Blood Cell Lysis Buffer and transfer to a 1.5 ml microcentrifuge tube. Do not vortex.
6. Incubate for 5 minutes at room temperature protected from light.
7. Centrifuge the tube at 1500 rpm for 3 minutes. Carefully remove and discard the supernatant without disturbing the cell pellet.
8. Gently resuspend the pellet in 1 ml of Phosphate Buffered Saline and pellet cells as in step 7.
9. Resuspend the pellet in the appropriate buffer and proceed with further procedures.