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# Minute™ RBC Lysis Buffer

Cat. No. WA-007

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## Description

Red blood cells (RBC) are abundant in blood-rich organs such as spleen and are the major component of blood. In many experiments such as protein and nucleic acid extraction from blood rich organs and analysis of nucleated cells from blood by flow cytometry, the RBC are not desirable and should be removed as much as possible prior to the extraction procedures. Minute RBC lysis buffer is a modified ammonium chloride solution that can effectively lyse RBC without significant effect on other nucleated cells.

The RBC lysis buffer is mainly used for lysis of RBC from mouse and human.

## Protocol

1. **Lysis of RBC rich tissue of mouse.** Prepare cell suspension from blood rich organ such as mouse spleen. Pellet the cells by low speed centrifugation (400-500 X g for 3-4 min). Pour out the supernatant completely and resuspend the pellet in 4-5 ml RBC lysis buffer per gram of tissue. Incubate at RT for 3-5 min and pellet the cells by low speed centrifugation as above. Resuspend the pellet in proper buffers (such as 1 X PBS, FACS buffer or other buffers) for downstream experiment.
2. **Lysis of RBC from mouse or human blood.** Add 10 volume RBC lysis buffer to 1 volume blood. Cap the tube, invert a few time and incubate at RT for 4-5 min with occasional shaking. Spin the tube at 400-500 X g for 5 min. Pour out the supernatant immediately and resuspend the pellet in 10-20 ml 1 X PBS or other buffer such as FACS buffer. If significant number of RBC remains, a second round of lysis can be performed.

**Package:** 250 ml

**Shipping and Storage:** Ship and stored at RT