

## Erythrocyte Lysis Solution

*Cell Culture Reagents*

**CATALOGUE NO.:** CC051

**DESCRIPTION:** Erythrocyte Lysis Solution has been formulated and tested to ensure optimal lysis of RBCs in single cell suspensions with minimal effects on leukocytes. Erythrocyte Lysis Solution is supplied as either 10X or 1X solution containing ammonium chloride.

**APPLICATION:** Lysis of red blood cells in many bio-assays

**PACKING SIZE:**

<i>Cat. No.</i>	<i>Size</i>	<i>Formulation</i>	<i>Storage</i>
CC051.100	100 ml	Sterile filtered solution, 1X	4°C
CC051.500	500 ml	Sterile filtered solution, 1X	4°C
CC051.1	100 ml	Sterile filtered solution, 10X	4°C

**PROCEDURES:**

### *I. Lysis of Mouse Spleen Erythrocyte*

1. Harvest mouse spleen and prepare a single cell suspension.
2. Pellet the cells by centrifugation (200 x g) for 5 min; aspirate the supernatant.
3. Resuspend the pellet with 5 ml of 1X Erythrocyte Lysis Solution.
4. Incubate on ice for 4-5 minutes with occasional shaking.
5. Stop the reaction by adding 25 ml of 1X PBS.
6. Spin the cells (200 x g) and discard the supernatant.
7. Wash the pellet with appropriate buffer.
8. Count cells, adjust density, and proceed with further procedures, such as cell staining.

### *II. Lysis of Peripheral Erythrocyte*

1. Add 2 ml of Erythrocyte Lysis Solution to each tube containing up to 100 µl of whole blood.
2. Gently vortex each tube immediately after adding the lysing solution. Incubate at room temperature, protected from light, for 10-15 minutes.
3. Centrifuge 200 x g for 5 minutes. Aspirate supernatant without disturbing pellet.
4. Wash the pellet with appropriate buffer.
5. Resuspend and proceed with further procedures.

**REFERENCES:**

1. Adams, R. A., et al 2007. J. Exp. Med. 204:571.
2. Feild-Corbett, C., et al. 2009. Stem Cells.

**FOR RESEARCH USE ONLY, NOT FOR USE IN DIAGNOSTIC AND THERAPEUTIC PROCEDURES**



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