BIO BASIC
Quality-Affordable Research

Product information

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Red Blood Cell (RBC) Lysis Buffer

Catalog #: PL012
Size: 100ml
Storage: 4°C*

*: Product will be shipped at ambient temperature. Check storage conditions.

Product Description:

Red Blood Cell (RBC) Lysis Buffer is suitable for use in treatment of leukocytes from fresh whole blood or use in hydridoma protocol to remove red blood cells from mouse spleencyte suspensions before fusion. RBC lysis buffer selectively lyses the erythrocytes and leaves the leukocytes intact. The solution is provided as a 2x Strength solution. The buffer can also used in further hemoglobin extraction and whole blood genomic DNA extraction. 100 ml of the Red Blood Cell (RBC) Lysis Buffer is sufficient for 100 ml of whole blood sample.

Storage and Transportation:

Upon receipt store Red Blood Cell (RBC) Lysis Buffer at 4°C. Product shipped at ambient temperature.

Procedures:

Blood Samples:

1. Collect fresh anticoagulant blood in the presence of EDTA, heparin or citrate acid. Mix 1 ml of Red Blood Cell Lysis Buffer with 1 ml anticoagulant blood (final buffer is 1X Strength). Vortex vigorously, and then keep at room temperature for 5 minutes.
2. Centrifuge at 10000 rpm for 1 minute. Transfer the supernatant for further hemoglobin extraction if needed.
3. Add 2 ml diluted 1x Strength Red Blood Cell Lysis Buffer into pellet. Vortex and then centrifuge at 1000 rpm for 5 minutes. Collect leukocyte precipitates where red blood cells have been removed.

Hybridoma Protocol:

1. Add 50 µl Red Blood Cell Lysis Buffer into 20 µl mouse spleencyte suspensions. Vortex, then keep at room temperature for 5 minutes.
2. Centrifuge at 1000 rpm for 5 minutes.
3. Discard the supernatant.
4. Repeat the steps 1 to 3 several times to completely remove red blood cell.

Notes:

1. If extracting hemoglobin from whole blood sample, please add proteinase and phosphatase inhibitor to protect sample from degrading.
2. After use, please securely close the lid of the Red Blood Cell (RBC) Lysis Buffer bottle.

PRODUCTS ARE INTENDED FOR BASIC SCIENTIFIC RESEARCH ONLY.
NOT INTENDED FOR HUMAN OR ANIMAL USE.

