

Lyse RBC 1x

This buffer is designed for selective lysis of erythrocytes in peripheral blood

Buffer **Lyse RBC 1x** is used to isolation and purification of DNA or RNA. Use it to reduce the volume of the blood sample and pre-remove enzyme inhibitors found in erythrocytes and plasma.

Storage. The solution should be stored in a tightly capped bottle at 2-8°C. Is stable for 6 months.

For RNA isolation from leukocytes pellet we recommend using our Gene Matrix kits : **Universal RNA** (E3598), **Human Blood RNA**(E3596) or **RNA Extracol** mixture (3700). In the case DNA isolation use **Quick Blood DNA** (E3565). The isolation of DNA and RNA from the same sample is possible with using **DNA/RNA Extracol** (E3750).

For latest RNA isolation, leukocytes pellet can be stored protected in **fix RNA** solution (E0280).

Cat. No.	size
E0326-01	100 ml
E0326-02	250 ml

Lysis of erythrocytes

1. Add 4 volumes of buffer **Lyse RBC** to a blood. Mix by inverting the tube.
 - *For example, if the starting blood volume is 300 μ l, add 1200 μ l of Lyse RBC buffer.*
 - *In the case isolation of RNA do not use frozen blood.*
2. Keep at 4°C for 10 min to lyse erythrocytes. Mix twice by inverting the tube.
3. Centrifuge at 1000 x g for 10 min at 4°C, and carefully decant the supernatant.
 - *Carefully pipette to collect the rest of the supernatant.*
4. Add two volumes of **Lyse RBC** to the leukocytes pellet. Mix thoroughly by vigorous vortexing.
 - *For example, if the starting blood volume is 300 μ l, add 600 μ l of Lyse RBC buffer.*
5. Centrifuge at 1000 x g for 10 min at 4°C, and carefully decant the supernatant. The pellet contains non-lysed leukocytes.
 - *Carefully pipette to collect the rest of the supernatant.*

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