



**Cat. No. E0326**

## Lyse RBC 1x

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

Buffer **Lyse RBC 1x** is used prior to isolation and purification of DNA or RNA from blood cells containing nuclei (leukocytes). The starting material is peripheral blood. During the procedure erythrocytes are lysed and removed together with the other contaminants from plasma. Leukocytes are obtained by centrifugation in a bench centrifuge. Storage. The solution should be stored in a tightly capped bottle at 2-8°C. Stable for 6 months.

For RNA isolation from leukocytes pellet we recommend using our GeneMatrix kits : **Universal RNA** (E3598), **Human Blood RNA**(E3596) or **RNA Extracol** mixture (E3700). For DNA isolation we recommend **Quick Blood DNA** (E3565). The isolation of DNA and RNA from the same sample is possible with **DNA/RNA Extracol** (E3750).

The obtained leukocytes pellet can be stored in **fix RNA** solution (E0280), which permeates the cells and instantly protects and stabilizes RNA (DNA).

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



# Lysis of erythrocytes

1. Add 4 volumes of buffer **Lyse RBC** to blood sample. Mix by inverting the tube.
  - *For example, if the starting blood volume is 300 µl, add 1200 µl of Lyse RBC buffer.*
  - *In the case of RNA isolation 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 µl, add 600 µl 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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