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Centrifuge the whole blood to separate red blood cells

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Protocol status: Working

We use this protocol in our group and it is working.

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Abstract

Centrifuge the whole blood in order to obtain the red blood cells.

Materials

Human whole blood, centrifuge, centrifuge tubes.

- 1 Centrifuge the whole blood using the parameters: 500 ×g, 4 °C, and 5 min.
- 2 Remove the plasma and buffy coat.
- 3 Add the same volume of Alsever's solution as the remaining blood components.
- 4 Centrifuge again using the parameters: 500 ×g, 4 °C, and 5 min.
- 5 Remove the top layer.
- 6 Add the same volume of Alsever's solution as the remaining blood components.
- 7 Centrifuge a third time using the parameters: 500 ×g, 4 °C, and 5 min.
- 8 Remove the top layer.
- 9 Add the same volume of Alsever's solution as the remaining blood component - red blood cells, and store at 4 °C for up to 7 days.