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Processing Serum from Whole Blood

 In 1 collection

DOI

<https://dx.doi.org/10.17504/protocols.io.kqdg3q121v25/v1>

Sara Lucas Del Pozo^{1,2}, Kai-Yin Chau^{1,2}, Jane Macnaughtan^{1,2}, Giuseppe Uras^{1,2}, Roxana Mezabrovschi^{1,2}

¹University College London; ²Aligning Science Across Parkinson's



Sofia Koletsi

University College London, University of London

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Protocol status: Working

We use this protocol and it's working



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Abstract

This protocol details the processing of serum from the whole blood sample.

Guidelines

The protocol needs prior approval by the users' Institutional Review Board (IRB), Institutional Animal Care and Use Committee (IACUC) or equivalent ethics committee(s) as applicable.

Safety warnings

 The protocol needs prior approval by the users' Institutional Review Board (IRB), Institutional Animal Care and Use Committee (IACUC) or equivalent ethics committee(s) as applicable.

Before start

The protocol needs prior approval by the users' Institutional Review Board (IRB), Institutional Animal Care and Use Committee (IACUC) or equivalent ethics committee(s) as applicable.

Procedure

40m

- 1 Gently invert the tubes at 180° and back 5-6 times after blood collection. After that, allow the tube to stand upright for 00:30:00 minimum from time of collection if needed, to allow for blood clotting to occur.

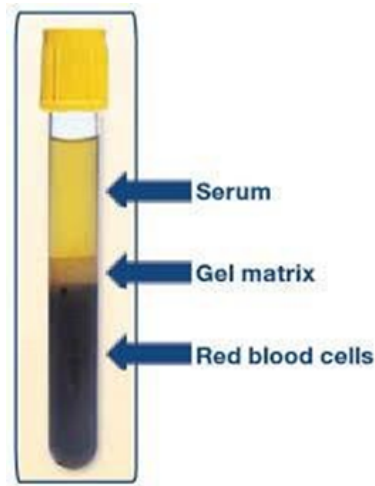
30m

- 2 Centrifuge the yellow cap tube(s) at 1800 x g, Room temperature, 00:10:00 **NO BRAKE**

10m



- 3 Once the centrifugation is complete, the gel must physically separate the red blood cells (bottom layer) and the serum (top layer) as shown in the figure.



- 4 Use the Pasteur pipette provided or a micropipette to aliquot 250 µL of the serum (upper layer) into the 5 or 6 × 1 ml cryovials labelled as SER.



- 5 Place serum samples in -80 °C .



Note

Processing of the blood needs to be completed within  04:00:00 . For waiting periods longer than 2 hours from collection the blood tube should be kept in  0 °C -  4 °C .