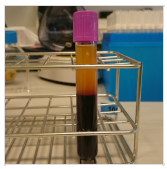

Version 6

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plasma preparation_test V.6

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1 Works for me dx.doi.org/10.17504/protocols.io.ns9deh6

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ABSTRACT

This protocol describes how to prepare plasma from blood and is an experimental protocol.

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KEYWORDS

plasma preparation

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PROTOCOL INTEGER ID

10817

Blood draw

1
- Note blood tube type
- Note date and time point of blood collection; store tubes upright at room temperature until centrifugation

- Note date and time point of arrival in lab
- Note amount of blood that was collected
- Take pictures of the tubes if needed

Centrifugation step 1: 20 min at 400 g (rcf)

2
- Invert tubes 5 times before starting centrifugation
- Spin tubes for 20 min at 400 g (rcf) (without brake), at room temperature
- Pipette platelet-rich plasma (PRP) carefully into a new collection tube, leave ± 0.5 cm above the buffy coat (do not disturb the buffy coat)
- Aliquot the PRP into cryovials or LoBind tubes, snap freeze in liquid nitrogen and store at -80°C (note time point in freezer), or continue to prepare platelet-poor plasma (PPP)

Centrifugation step 2: 10 min at 800 g (rcf)

3
- Spin the PRP for 10 min at 800 g (rcf) (without brake) to obtain platelet-poor plasma (PPP), at room temperature
- Pipette PPP carefully into a new collection tube, leave ± 0.5 cm above pellet (do not disturb pellet)
- *Optional: If platelets need to be collected, resuspend pellet in remaining volume above pellet, transfer to 1.5 ml tube, and spin again for 10 min at 800 g (rcf) (without brake), remove volume and snap freeze pellet in 1.5 ml tube.*
- Aliquot the PPP into cryovials or LoBind tubes, snap freeze in liquid nitrogen and store at -80°C (note time point in freezer), or continue to prepare platelet-free plasma (PFP)

Centrifugation step 3: 15 min at 2500 g (rcf)

4
- Spin the PPP for 15 min at 2500 g (rcf) (without brake) to obtain platelet-free plasma (PFP), at room temperature
- Pipette PFP carefully into a new collection tube, leave ± 0.5 cm above pellet (do not disturb pellet)
- Aliquot the PFP into cryovials or LoBind tubes, snap freeze in liquid nitrogen and store at -80°C (note time point in freezer)

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