



plasma preparation_test V.5

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Works for me

dx.doi.org/10.17504/protocols.io.kbecsje

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ABSTRACT

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

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Blood draw

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- 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: 15 min at 2500 g (rcf)

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 - Spin the PRP for 15 min at 2500 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, remove remaining volume above pellet and snap freeze pellet in 1.5 ml tube or resuspend pellet in remaining volume above pellet, transfer to 1.5 ml tube, and spin again for 15 min at 2500 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)