



# plasma preparation\_test V.4

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Works for me

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## ABSTRACT

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

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## PROTOCOL CITATION

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## KEYWORDS

plasma preparation

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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 120 g (rcf)

- 2
  - Spin tubes for 20 min at 120 g (rcf) (without brake), at room temperature
  - Pipette platelet-rich plasma (PRP) carefully into a new collection tube, leave  $\pm 0.5$  cm above the buffy coat (do not disturb the buffy coat)
  - Aliquot the PRP into cryovials, snap freeze in liquid nitrogen and store at  $-80^{\circ}\text{C}$  (note time point in freezer), or continue to prepare platelet-poor plasma (PPP)

#### Centrifugation step 2: 15 min at 2500 g (rcf)

- 3
  - 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  $\pm 0.5$  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 15 min at 2500 g (rcf) (without brake). Remove volume and snap freeze pellet.*
  - Aliquot the PPP into cryovials, snap freeze in liquid nitrogen and store at  $-80^{\circ}\text{C}$  (note time point in freezer), or continue to prepare platelet-poor plasma (PPP)

#### 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  $\pm 0.5$  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 15 min at 2500 g (rcf) (without brake). Remove volume and snap freeze pellet.*
  - Aliquot the PFP into cryovials, snap freeze in liquid nitrogen and store at  $-80^{\circ}\text{C}$  (note time point in freezer)