

Work Module 1. Liquid Biopsy and Biomarkers

Experimental Protocol

Serum preparation for liquid biopsy studies

Total time for experiment: 30 minutes

Reagents:

3.5ml or 8.5ml BD Vacutainer tube without anticoagulant (Becton Dickinson, ref: #366468 (8.5ml), #368965 (3.5ml))
1.5ml Eppendorf tubes
p1000 pipette tips
Freezer storage boxes for Eppendorf tubes

Instruments and tools:

Centrifuge, capable of ~3000g with a swing bucket rotor
p1000 pipette (e.g. Gilson)
-80°C Temperature Freezer

Prior considerations:

Samples should ideally be processed within 4 hours from the time of extraction.

Steps:

- Record the time and date of the sample extraction as well as the subject ID in an appropriately designed sample database.
- Centrifuge the blood tube at room temperature (15°C to 25°C) for 10 min at 1600 (± 150)g.
- After centrifugation, carefully remove tube from centrifuge and transfer 250ul aliquots of the serum to Eppendorf tubes. *N.B. The volume of the aliquots should to be adjusted to the study.*
- Immediately freeze plasma upright in storage box at -80°C

Contact:

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