

Blood Sample Processing for CCE Project

Procedure

1. Check the isopropanol level in the Nalgene cryo freezing container (fill if needed).
2. Take pre-made sample preservation vials containing storage solution (RPMI1640 media containing 10% FBS, 10% DMSO, and 1 mM deferoxamine) out from freezer and let them warm up to room temperature.
3. Thoroughly mix blood sample by inverting the blood tube.
4. Immediately after mixing, add 10 μ l of blood to each of two microcentrifuge vials.
5. Mix the vial by gently swirling the vial.
6. Place the vials in Nalgene cryo freezing container and store at - 80°C freezer.
7. After a minimum of 12 hours, transfer vials to sample storage box and store at - 80°C freezer until analysis.
8. Centrifuge the remaining blood sample at 1500xg for 20 min at 4 °C.
9. Using a disposable transfer pipette, aliquot plasma (top layer) evenly into to two properly labeled, 2.0 ml screw cap microcentrifuge vials. Be careful not to disturb the middle layer (buffy coat, the whitish layer consists of white blood cells).
10. Using a disposable transfer pipette, carefully transfer the entire buffy coat to a properly labeled, 2 ml microcentrifuge vial with minimum amount of red blood cells. Discard the blood tube.
11. Place samples in sample storage box.
12. Store samples in -80°C freezer until analysis.

