Cryopreservation of Human Serum

1. Principle

1.1. Human serum can be frozen at -80°C and tested later.

2. Materials and Equipment

2.1. Patient sample in Red top tube.
2.2. Freezing box
2.3. -80°C freezer
2.4. Biosafety cabinet
2.5. Centrifuge

3. Procedure

3.1. Incubate blood sample in Red top tube for at least 30 minutes at Room Temperature (to form a clot).
3.2. Label 4 cryovials to freeze the sample (polypropylene vials). Label should include study number, sample identification, the date, and "serum".
3.3. Centrifuge the red top tubes for 10 minutes at 1200 RCF. (Program 1 on the Hettich centrifuge.)
3.4. Slowly remove the serum into a sterile transfer pipette and divide equally among the 4 appropriately labeled vials. Take care to avoid coming too close to the pellet cells.
3.5. Place the cryovials in a freezing box and label the box.
3.6. Place the freezing box as soon as possible into the -80°C freezer.