

SOP 2.5.10 Blood Collection for Isolation of Peripheral Blood Mononuclear Cells

SOP Number: 2.5.10
Version Number 1.0

	Name	Title	Date
Author			
Authoriser			

Effective Date	
Version Number	

Purpose

This SOP describes the procedure for blood collection for isolation of peripheral blood mononuclear cells.

Responsibility

It is the responsibility of the research personnel carrying out this procedure to ensure that all steps are completed both competently and safely.

Equipment/reagent requirements

- Blood collection system
- Personal protective equipment; gloves, laboratory coat, protective glasses
- Blood collection tube: Acid Citrate Dextrose (ACD) tubes or BD CPT tube
- If using a BD CPT tube a centrifuge capable of generating a G force of 1,100-1,300g at the bottom of the tube is required.

Procedure

Using ACD tubes

1. Draw blood directly into the evacuated tube. Filling the tube to the black mark on the tube label indicates that the correct amount of blood has been drawn. Under-filling or overfilling of the tube can affect laboratory results.
2. The blood collection tube is labeled appropriately either with a unique identification study number and/or a bar code label generated electronically.

3. Record the time that the sample was taken in the study specific documentation or data management system.
4. Maintain tubes at RT (18-22°C) and transport to the processing laboratory within 24 hours at RT (18-22°C) for processing.

Note: As a general rule samples should be processed and reach the appropriate storage conditions as soon as is practicable. The maximum time limits proposed are guidelines and should be read in association with a study specific protocol.

Note: For BD CPT follow the manufacturer’s instructions outlined in the information for use.

Change History

SOP Number	Effective Date	Significant Change	Previous SOP No.