

One step PBMC

V-PBMC Blood collection tube

1. V-PBMC Features

V-PBMC tube is a vacuum blood collection tube for separating Peripheral blood mononuclear cell (PBMC) from whole blood which contains Ficoll and a special separating gel.

V-PBMC tube has the advantage of requiring only one step from blood collection to separation. This minimizes contamination and technical errors that may occur during the preprocessing phase of the sample, and it is possible to obtain up to 15 million PBMCs with only 15 to 20 minutes of centrifugation.

2. V-PBMC Contains

REF P7280DP

8.0ml Draw Capacity (16x125mm tube Size) Sterile

- 1.0ml 1.109M Sodium Citrate Solution (Top Liquid Layer)
- Polyester Gel (Middle Layer)
- 2ml FICOLL™ (Bottom Layer)
- Glass tube and Rubber stopper

3. Caution

- Avoid direct sunlight and store the product at 8-25°C.
- Do not use tubes after their expiration date.
- The user fully understands the usage method and uses it.
- Do not reuse.
- All glass product is breakable, therefore handle with carefully.
- Discard used tubes to biohazard containers.
- The tube contains additives by blood collection volume. Do not arbitrarily adjust the blood collection volume. Excessive or not enough blood volume can cause occur inaccurate results.
- Observe the recommended centrifugation speed or sample storage time. From blood collection to sample treatment is recommended to follow the user manual.
- Obtain appropriate medical attention in case of any exposure to biologic samples (for example, through a puncture injury)
- Only for use in vitro diagnostic use.

4. V-PBMC Instruction for use

o Before the Use

- a) Do not use tubes after expiration date printed on the tube label.
- b) Do not use tubes if the liquid solution above and below the gel layer is discolored or a precipitate is formed.
- c) Check whether the product is damaged and exist of additives.

o How to Use

- 1) For general guidelines on blood collection, see CLSI-H3-A6" Procedures for Collection of Diagnostic Blood Specimens by Venous Blood Collection"Sample Collection
- 2) Sample Collection (Prevent of backflow)
 - a) Position the patient with the arm extended downward.
 - b) Combine the blood collection needle and the holder and insert it into the patient's vein.
 - c) Insert the tube into the holder and collect blood up to the blood collection line.
(Tourniquet is released as soon as blood starts to flow)
 - d) During the procedure, do not allow contents of tube contact with the inner cap and the tip of needle.
- 3) Remove the tube from the holder and mixed thoroughly after collection to prevent hemolysis.
- 4) PBMC Separation
 - a) Store or transport samples under recommended conditions.
 - b) Centrifuge the blood collected tube at 1,500-1800 RCF for at least 20 minutes.
 - c) After centrifugation, PBMCs are placed in a whitish layer just below the plasma layer.
 - d) Use a transfer pipette to harvest the PBMC layer.
Transfer it into a new conical tube.
 - e) After washing several times with PBS, perform Various tests are performed according to the protocol or analysis instructions of the laboratory.
- 5) Storage and Disposal
 - a) V-PBMC tube recommends PBMC isolation within 2 hours at room temperature after blood collection.
Results from subsequent use are not guaranteed.
 - b) Since the V-PBMC tube is a disposable medical device,
seal it with a cap after use and dispose of it safely as medical waste.