Technical data sheet

Lymphocyte Separation Media

(Density 1,077 g/ml)

CAT N°: AC-AF-0017 and AC-AF-0018

Theoretical pH: 7.0 ± 0.5

Osmolality: 300 mOsm/kg ± 20

Density: 1.077 ± 0.001

Colour: colourless, clear solution

Storage conditions: Room temperature, protected from light

Shelf life: 24 months

Sterility tests:

- bacteria in aerobic and anaerobic conditions

- fungi and yeast

Endotoxin: < 10 EU/ml

Composition: Available on request

Recommended use:

- Respect storage conditions of the product

- Do not use the product after its expiry date

- Store product in an area protected from light (not necessary for saline solutions).

- Manipulate the product in aseptic conditions (e.g. : under laminar air flow)

- Wear clothes adapted to the manipulation of the product to avoid contamination (e.g. : gloves, mask, hygiene cap, overall…)

The product is intended to be used for in vitro diagnostic and scientific purposes. Do not use it in therapy, human or veterinary applications.

Applications:

Lymphocyte Separation Media is designed for the simple, rapid isolation of lymphocytes from whole blood that has been diluted and treated with anti-coagulant or defibrinating agent. For best results, use blood drawn less than 2 hours before. Do not use blood more than 24 hours from when it was drawn.

Uses:

1) Thoroughly mix the Lymphocyte Separation Media by inverting the bottle gently.

2) Aseptically transfer 3 ml of Lymphocyte Separation Media to a 15 ml centrifuge tube.

3) Mix 2 ml of defibrinated or heparined blood with 2 ml of physiological saline (PBS w/o Ca w/o Mg) or balanced salt solution (AC-BS-0002).

4) Carefully layer the diluted blood over 3 ml of Lymphocyte Separation Media (room temperature) in a 15 ml centrifuge, creating a sharp blood-Lymphocyte interphase. DO NOT MIX! The quality of the separation is dependent upon a sharp interphase between the lymphocytes and the solution.

5) Centrifuge the tube at 400G at room temperature for 15 to 30 minutes. Centrifugation should sediment erythrocytes and polynuclear leukocytes and band mononuclear lymphocytes above the Lymphocyte Separation Media.

6) Aspirate the top layer of clear plasma to within 2-3 mm above the lymphocyte layer.

7) Aspirate the lymphocyte layer plus about half of the Lymphocyte Separation Media layer below it and transfer it to a centrifuge tube. Add an equal volume of buffered balanced salt solution to the lymphocyte layer in the centrifuge tube and centrifuge for 10 minutes at room temperature (18°C to 25°C) at a speed sufficient to sediment the cells without damage i.e., 160-260 g. Washing the cells removes Lymphocyte Separation Media and reduces the percentage of patelets.

8) Wash the cells again with buffered balanced salt solution (AC-BS-0002) and resuspend in the appropriate medium for your applications.

Important Remarks:

- CAUTION : the product is not for human or animal therapeutic use. Uses other than the intended use may be a violation of local law.

- Each laboratory must carry out their own testing procedures on new media according to national legislation prior to releasing them to the lab for routine in vitro applications.

- Each clinician/scientist must make an independent judgment on whether this medium is suitable for use in in vitro diagnostic applications conducted in their laboratory.

- anprotec does not guarantee the successful outcome of any diagnostic testing based solely on the use of Anprotec brand medium.