

**Lymphosep, Lymphocyte Separation Media** **CAT N°:** L0560**Theoretical pH:**  $7.0 \pm 0.5$ **Osmolality:** 300 mOsm/kg  $\pm 20$ **Density:**  $1.077 \pm 0.001$ **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:** Displayed on website and also 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:**

Lymphosep 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 Lymphosep by inverting the bottle gently.
- 2) Aseptically transfer 3 ml of Lymphosep 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 (L0615).
- 4) Carefully layer the diluted blood over 3 ml of Lymphosep (room temperature) in a 15 ml centrifuge, creating a sharp blood-Lymphosep 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 Lymphosep.
- 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 Lymphosep 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 Lymphosep and reduces the percentage of platelets.
- 8) Wash the cells again with buffered balanced salt solution (L0615) 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.
- Biowest does not guarantee the successful outcome of any diagnostic testing based solely on the use of Biowest brand medium.

**CE marked:**

Lymphosep is a CE marked medium for IVD which fulfils the requirements of the Directive 98/79/CE.