LymphoSepMate™
Lymphocyte Isolation Kit

Revision Date: 2020-05

PRODUCT INFORMATION

LymphoSepMate™ Lymphocyte Isolation Kit, 15 mL, Sterile
Cat. No. 091692625 / 25 Tubes
Store at room temperature

PRODUCT DESCRIPTION

LymphoSepMate is an innovative 15 mL separation tube with a porous barrier and pre-loaded density gradient media for optimal separation of lymphocytes and mononuclear cells from blood and tissues.

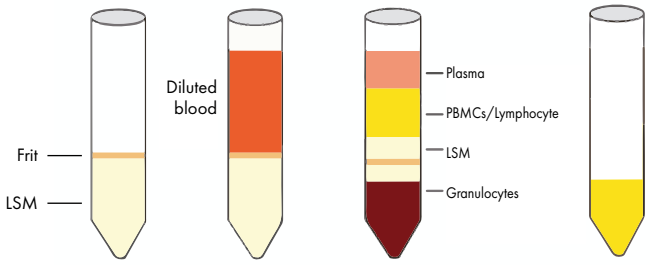
ADDITIONAL REAGENTS & EQUIPMENT REQUIRED (NOT PROVIDED)

- Centrifuge (swinging bucket rotor) capable of generating 1,000 x g
- Centrifuge tubes for washing mononuclear cells
- Phosphate buffered saline solution (Cat. No. 091860454) or similar alternative cell culture medium

PROCEDURE

This Lymphocyte Separation Kit has been pre-loaded with 3 mL high performance Lymphocyte Separation Medium (LSM) at the bottom of the LymphoSepMate Tube below the frit for greater separation efficiency and time-savings. The blood sample can be added to the top chamber of the tube without risk of mixing with density gradient medium under the frit. After centrifugation, lymphocytes and other mononuclear cells remain at the plasma/density gradient medium interface. This dense band of mononuclear cells may be collected by pouring off the contents of the upper chamber or by means of a pipette. Erythrocyte contamination is avoided due to the barrier between the chambers.

1. Freely pour 4-6 mL of diluted blood sample (defibrinated or heparinized human blood is diluted with physiological saline or balanced salt solution at a 1:1 ratio) into the upper chamber of the tube.
2. Centrifuge at 1,000 x g for 10 min or 800 x g for 15 min at room temperature. **NOTE:** Centrifugation at lower temperatures, such as 4°C, may result in cell clumping and poor recovery.
3. After centrifugation, carefully aspirate the plasma layer with a Pasteur pipette to within 2-3 mm of the opaque interface containing the mononuclear cells. Carefully transfer the opaque interface above the frit with a Pasteur pipette into a clean conical centrifuge tube.
4. Wash the cells by adding 10 mL of phosphate buffered saline or appropriate cell culture medium and mix the cells using a Pasteur pipette.
5. Centrifuge at 160–250 x g for 10 minutes at room temperature.
6. Aspirate the supernatant and discard.
7. Resuspend cell pellet with 5 mL of phosphate buffered saline or appropriate cell culture medium and mix the cells by using a Pasteur pipette.
8. Centrifuge at 160–250 x g for 10 minutes at room temperature.
9. Aspirate the supernatant and discard.
10. Repeat Steps 7, 8 and 9, and resuspend cell pellet in appropriate medium for your applications.



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