

PRODUCT: Lymphoprep™**ALTERNATE NAMES:** Density Gradient Media, Lymphoprep**CATALOG #:** M1274-250
M1274-500
M1274-4PK**AMOUNT:** 250 ml (1 x 250 ml)
500 ml (2 x 250 ml)
4 x 250 ml**APPEARANCE:** Liquid**FORMULATION:** Solution of sodium diatrizoate (9.1% (w/v) and polysaccharide (5.7% (w/v) with a density of 1.077 g/ml and osmolarity of 290 mOsm.**ENDOTOXIN LEVEL:** < 1.0 EU/ml**STORAGE:** Store at +4°C to +30°C. Protect from air and light. Prolonged exposure to direct sunlight leads to release of iodine from the sodium diatrizoate molecule.**DESCRIPTION:** Lymphoprep™ is a ready-made, sterile and endotoxin tested density gradient medium recommended for the isolation of pure lymphocyte suspensions for tissue typing, anti-lymphocyte sera and immunological research. The solution contains sodium diatrizoate (9.1% (w/v) and polysaccharide (5.7% (w/v)).**SEPARATION PROCEDURE:**

1. Collect blood into a tube containing anticoagulant (EDTA, heparin, ACD) or use defibrinated blood.
2. Dilute the blood by adding an equal volume of 0.9% NaCl.
3. Carefully layer 6 ml of the diluted blood over 3 ml Lymphoprep™ in a 12-15 mm centrifuge tube. Alternatively, Lymphoprep™ can be underlayered. Avoid mixing of blood and separation fluid. Cap the tube to prevent the formation of aerosols.
4. Centrifuge at 800 x g for 20 min at RT (approximately 20°C) in a swing-out rotor. If the blood is stored for more than 2 hr increase the centrifugation time to 30 min.
5. After centrifugation the mononuclear cells form a distinct band at the sample/medium interface, as shown in the figure. The cells are best removed from the interface using a Pasteur pipette without removing the upper layer.
6. Dilute the harvested fraction with 0.9% NaCl or medium to reduce the density of the solution and pellet the cells by centrifugation for 10 min at 250 x g.

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.**RELATED PRODUCTS:**

- Lysosome Purification Kit (BV Cat # K235-50)
- OrgFrontier™ Chloroplast Isolation Kit (BV Cat # K468-10)
- Human Peripheral Blood Mononuclear Cell Isolation & Viability Kit (BV Cat # K541-30)
- OptiPrep™ Density Gradient Medium (BV Cat # M1248)

USAGE: ***FOR RESEARCH USE ONLY! Not to be used in humans******Lymphoprep™ is a trademark of Axis-Shield***