Technical Data Sheet

12/07/2017

Lymphosep, Lymphocyte Separation Media

Code Produit : LM-T1702

Theoretical pH :	7.0 ± 0.5
Osmolality :	300 mOsm/kg ± 20
Density:	1.077 ± 0.001
Colour :	colourless, clear solution
Storage conditions :	Room temperature
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 in vitro, in laboratory only. Do not use it in therapy, human or veterinary

2 rue du Vieux Bourg
49340 Nuaillé
Tel +33 (0)5 61 97 69 69
info@biosera.com www.biosera.com
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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 patelets.
8) Wash the cells again with buffered balanced salt solution (L0615) and resuspend in the appropriate medium for your applications.

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