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Please contact CEDARLANE® for lot specific information.

Lympholyte®-Rat

CL5040, CL5041, CL5045

DESCRIPTION:

Lympholyte®-Rat is a density separation medium specifically designed for the isolation of viable lymphocytes from rat lymphoid cell suspensions.

APPLICATIONS:

Lympholyte®-Rat can be utilized with a simple protocol for the elimination of erythrocytes, dead cells and debris from rat spleen, lymph node, thymus and bone marrow suspensions. The resulting cell population demonstrates a high and non-selective recovery of viable lymphocytes, which are suitable for use as target cells in cytotoxicity and FACS assays, as well as in *in vivo* and *in vitro* functional studies. Other successful applications include:

- i) the removal of dead cells in sequential cytotoxicity studies eg. B-cell depletion.
- ii) the removal of erythrocytes, dead cells and debris from other rat tissue suspensions including liver and lung.
- iii) the harvesting of viable cells and removal of dead cells and debris from various clone cell and hybridoma cell lines.

PRESENTATION:

Sterile liquid. CL5040, 5 x 30 ml CL5045, 1 x 500 ml CL5041 1x 100 ml

STORAGE/STABILITY:

Store at room temperature unopened. Store at +4°C once opened. *Always store protected from light*.

Note: Phase separation may occur with long-term storage. **SHAKE WELL BEFORE USE. ALLOW TO STAND UNTIL NO AIR BUBBLES PRESENT. USE AT ROOM TEMPERATURE.**

Continued Overleaf...

For more information or to place an order please contact...



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SPECIFICATIONS:

Composition: Nycograde TM Polysucrose 400 and Sodium Diatrizoate

<u>Density</u>: $1.094 \pm 0.001 \text{ g/cm}^3 \oplus 22^{\circ}\text{C}.$

<u>pH</u>: 6.9 ± 0.3

<u>Viability/Purity</u>: Recovery of viable lymphocytes $\geq 70\%$.

Results obtained on a rat spleen suspension:

Fraction	Viable Lymphocytes	Erythrocyte Contamination
upper	<1%	0
interphase	>70%	< 15%
lower	<10%	< 5%
pellet	<20%	> 80%

METHOD OF USE:

Use Lympholyte[®]-Rat and preferably a serum-free medium of choice (Phosphate Buffered Saline, Modified McCoy's Medium, etc.) at room temperature (approximately 22°C).

1. Prepare a lymphocyte suspension using your preferred method and medium. Spleen has a high membrane content and a clean suspension is required for proper separation.

Suggested method: a) cut up spleen into small pieces

b) homogenize

c) pass suspension through a fine screen mesh

Other tissues: homogenize thoroughly to obtain a clean suspension.

2. Adjust the cell concentration to 2×10^7 nucleated cells per ml or less.

Note: If cell suspension contains a large amount of debris or erythrocytes, a cleaner separation will be obtained if the cell concentration is set at 1.0×10^7 cells/ml.

3. Layer the cell suspension over Lympholyte[®]-Rat according to Method A or Method B (see figures). Use a 10-15 ml centrifuge tube.

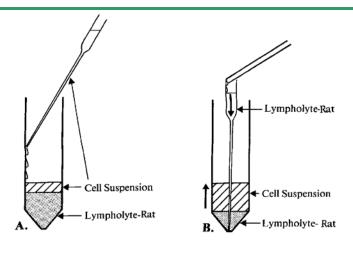
Method A: Add 5 ml of Lympholyte[®]-Rat to the centrifuge tube. Using a pipette, carefully layer 5 ml of the cell suspension over the Lympholyte[®]-Rat with as little mixing as possible at the interface (Figure A). Since Lympholyte[®]-Rat is of greater density than the cell suspension, a distinct interface will be formed (Figure C).

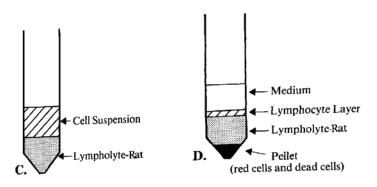
Method B: Add 5 ml of the cell suspension to the centrifuge tube. Place a large (23 cm) Pasteur pipette to the bottom of the tube

(Figure B). Slowly add Lympholyte $^{\circledR}$ -Rat to the Pasteur pipette allowing gravity to layer it under the cell suspension. Continue until

5 ml of Lympholyte $^{\circledR}$ -Rat has been layered under the cell suspension. Since Lympholyte $^{\circledR}$ -Rat is of greater density than the cell suspension, the cell suspension will form a layer above the Lympholyte $^{\circledR}$ -Rat with a distinct interface (Figure C).

- 4. Centrifuge for 20 minutes at 1000-1500g at **room temperature**.
- 5. After centrifugation, there will be a well-defined lymphocyte layer at the interface (Figure D). Using a Pasteur pipette, carefully remove the cells from the interface and transfer to a new centrifuge tube.
- 6. Dilute the transferred cells with medium to reduce the density of the solution. Centrifuge at 800g for 10 minutes to pellet the lymphocytes, then discard the supernatant.
- 7. Wash the lymphocytes 2-3 times in medium (can now use media containing serum) before further processing.





FOR RESEARCH USE ONLY

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LYMPHOLYTE® is a registered trademark of Cedarlane Laboratories Ltd., Burlington, Canada.

References:

1. Kawashima, H., et al. 1994. Journal of Immunology. 153: 1982.