PRODUCT DATA SHEET

Cell Separation Media – Fico/Lite™-LM (mouse)

Description

Atlanta Biologicals offers a complete line of Ficoll®-based cell separation media for the isolation of blood cells from human and animal species. Fico/Lite ionic density gradient media are supplied as ready-to-use sterile solutions. These media allow a rapid, simple and reliable separation of cell populations in one centrifugation step. Each lot of product is carefully manufactured and quality controlled to ensure lot-to-lot consistency and reliability.

The Fico/Lite™- LM is suitable for the isolation of viable mononuclear cells from mouse peripheral blood and lymphoid organs. The Fico/Lite™- LM is supplied with a density of 1.086 ± 0.001 g/ml @ 20°C and an Osmolality of 280 ± 10 mOs/kg H_2O.

Product Use

Separation of Mononuclear Cells from Whole Blood:

Note: Gently mix the Fico/Lite solution before use by swirling the bottle.

Using the chart below, prepare the anticoagulant treated blood sample by diluting with an equal volume (1:1) of culture medium or a physiological saline solution at room temperature. Place the room temperature Fico/Lite solution into a sterile centrifuge tube and carefully layer the diluted blood onto the Fico/Lite. For best results, a distinct boundary should exist between the diluted blood and the Fico/Lite solution.

Pre-mix Blood & Diluent	15 ml Centrifuge Tube	50 ml Centrifuge Tube
Whole Blood	2 ml	4 ml
Diluent	2 ml	4 ml
Fico/Lite	3 ml	6 ml

Centrifuge the tube at 1000-1500xg and 18-22°C for 20 minutes.

Carefully aspirate the upper layer, containing plasma and platelets, without disturbing the mononuclear cell layer at the interface. Using a clean pipet, carefully withdraw the mononuclear cell layer at the interface, minimizing the amount of Fico/Lite also withdrawn with the sample. Removing excess Fico/Lite from the bottom layer may result in granulocyte contamination of your sample.

Fico/Lite should be removed from the isolated cell suspension by resuspending the cells in at least 3 volumes of culture medium or physiological saline and centrifuging at 100-200xg for 10 minutes. Repeat this procedure at least one time prior to using the cells for your particular application, taking care to gently resuspend the cell pellet each time. Cell viability should be >90%.

Address: 4172 Industry Way, Flowery Branch, GA 30542 **Phone:** (800) 780-7788, (770) 446-3336 **Fax:** (800) 780-7374, (770) 446-3332

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Separation of Mononuclear Cells from Lymphoid Organs:

Note: Gently mix the Fico/Lite solution before use by swirling the bottle.

The Fico/Lite and the culture medium used for preparation of your cell suspension should be at room temperature before use. Prepare a lymphocyte suspension from spleen, thymus or lymph nodes using whatever method you prefer to harvest the cells. A clean suspension of cells is required for proper separation. Dilute the cell suspension to a cell concentration of 5 x 10^6 nucleated cells/ml or less.

Using the chart below, place the correct amount of Fico/Lite solution into a sterile centrifuge tube and carefully layer the cell suspension onto the Fico/Lite. For best results, a distinct boundary should exist between the cell suspension and the Fico/Lite solution.

	15 ml Centrifuge Tube	50 ml Centrifuge Tube
Fico/Lite	5 ml	15 ml
Cell Suspension	5 ml	15 ml

Centrifuge the tube at 1000-1500xg and 18-22°C for 20 minutes.

Carefully aspirate the upper layer, containing plasma and platelets, without disturbing the mononuclear cell layer at the interface. Using a clean pipet, carefully withdraw the mononuclear cell layer at the interface, minimizing the amount of Fico/Lite also withdrawn with the sample. Removing excess Fico/Lite from the bottom layer may result in contamination of your sample with cellular debris or red cells.

Fico/Lite should be removed from the isolated cell suspension by resuspending the cells in at least 3 volumes of culture medium or physiological saline and centrifuging at 100-200xg for 10 minutes. Repeat this procedure at least one time prior to using the cells for your particular application, taking care to gently resuspend the cell pellet each time. Cell viability should be >90%.

Storage and Handling

The Fico/Lite™- LM is supplied in gamma irradiated, sterile PETG or PETE bottles. We recommend that the Fico/Lite™- LM be stored refrigerated at a temperature of 2°C to 8°C, protected from strong light exposure. Always use aseptic techniques when handling Fico/Lite™- LM.

Shipping

The Fico/Lite™- LM is shipped ambient by second day air.

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