

## PRODUCT DATA SHEET

### Cell Separation Media – Fico/Lite™-LymphoH

#### 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™-LymphoH is suitable for the isolation of viable mononuclear cells from human peripheral blood. The Fico/Lite™- LymphoH is supplied with a density of  $1.077 \pm 0.001$  g/ml @ 20°C and an Osmolality of  $290 \pm 10$  mOs/kg H<sub>2</sub>O.

#### 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.

|                                    | 15 ml Centrifuge Tube | 50 ml Centrifuge Tube |
|------------------------------------|-----------------------|-----------------------|
| <b>Pre-mix Blood &amp; Diluent</b> |                       |                       |
| Whole Blood                        | 4 ml                  | 14 ml                 |
| Diluent                            | 4 ml                  | 14 ml                 |
| Fico/Lite                          | 6 ml                  | 20 ml                 |

Centrifuge the tube at 400xg and 18-22°C for 20-30 minutes (or 800xg for 10-15 minutes). Since differences may exist between individual centrifuges, the optimum separation time should be determined for each centrifuge to be used for cell separation.

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a clean pipet, carefully withdraw the mononuclear cell layer at the interface, minimizing the amount of Fico/Lite also withdrawn with the sample.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.

*This product is manufactured for research and development purposes only. It is not intended for any human or animal diagnostic, therapeutic or other clinical uses. It is also not for agricultural, food, drug, cosmetic or household use. The use of these products must be supervised by a person technically qualified to handle potentially hazardous material.*

**PRODUCT DATA SHEET - Cell Separation Media – Fico/Lite™- LymphoH**

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™-LymphoH is supplied in gamma irradiated, sterile PETG or PETE bottles. We recommend that the Fico/Lite™-LymphoH 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™-LymphoH.

**Shipping**

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

*This product is manufactured for research and development purposes only. It is not intended for any human or animal diagnostic, therapeutic or other clinical uses. It is also not for agricultural, food, drug, cosmetic or household use. The use of these products must be supervised by a person technically qualified to handle potentially hazardous material.*

**S70-007 Rev2****Revision Date: April 2016****Page 2 of 2**