# Fico/Lite™-LM (Mouse)

| Catalog Number: | Size: |
|---|---|
| I40650 | 500 mL |
| I40610 | 100 mL |

## PRODUCT DESCRIPTION

Fico/Lite-LM (Mouse) is a 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 within our ISO 9001:2015 certified facility to ensure lot-to-lot consistency and reliability.

The Fico/Lite-LM (Mouse) is suitable for the isolation of viable mononuclear cells from mouse peripheral blood and lymphoid organs. The Fico/Lite-LM (Mouse) is supplied with a density of 1.086 ± 0.001 g/mL at 20 °C and an Osmolality of 280 ± 10 mOsm/kg $H_2O$.

## STORAGE AND HANDLING

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

## PRECAUTION

When handling bio-hazardous materials such as human cells, safe laboratory procedures should be followed, and personal protective equipment should be worn.

## LIMITATIONS

- FOR LABORATORY RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES.
- The safety and efficacy of this product in diagnostic or other clinical uses has not been established.
- Results may vary due to variations among tissue/cells derived from different donors or sources.



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## PRODUCT USE

### SEPARATION OF MONONUCLEAR CELLS FROM WHOLE BLOOD:

**Note:** *Gently mix the Fico/Lite-LM (Mouse) before use by swirling the bottle.*

Using the table 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-LM (Mouse) solution into a sterile centrifuge tube and carefully layer the diluted blood sample onto the Fico/Lite-LM (Mouse). For best results, a distinct boundary should exist between the diluted blood and the Fico/Lite-LM (Mouse) solution.

| Pre-mix Blood & Diluent | 15 mL Centrifuge Tube | 50 mL Centrifuge Tube |
|---|---|---|
| Whole blood | 2.0 mL | 4.0 mL |
| Diluent | 2.0 mL | 4.0 mL |
| Fico/Lite-LM(Mouse) | 3.0 mL | 6.0 mL |

Centrifuge the tube at 1000-1500 x g and 18-22 °C for 20-30 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, which contains 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-LM (Mouse) withdrawn with the sample. Removing excess Fico/Lite-LM (Mouse) from the bottom layer may result in granulocyte contamination of your sample.

Fico/Lite-LM (Mouse) 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 100-200 x g 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%.