

## **CD1 Mouse Bone Marrow Mononuclear Cells**

Catalog No. CD-1271F

Suggested Medium: Leukocyte Medium /w Kit (500 ml)

Catalog No. **M3366**

### **Product Description**

CD1 Mouse Bone Marrow Mononuclear Cells are derived from the tibias of pathogen-free laboratory adult mice. Each vial contains  $10 \times 10^6$  cells and is delivered frozen. Cells are negative for bacteria, yeast, fungi, and mycoplasma. Cells can be expanded on a multiwell culture plate ready for experiments under the cell culture conditions specified by *Cell Biologics*. Repeated freezing and thawing of cells is not recommended.

### **Laboratory Applications**

CD1 Mouse Bone Marrow Mononuclear Cells can be used in standard biochemical procedures include PCR, Western blotting, immunoprecipitation, ROS, or cell derivatives for desired research applications.

### **Storage of *Cell Biologics* Products**

*Cell Biologics* will ship frozen cells on dry ice. On receipt, immediately transfer frozen cells to liquid nitrogen until ready for experimental use. Live-cell shipment is also available on request. Primary cells can never be kept at  $-20\text{ }^{\circ}\text{C}$ .

### **Authorized Uses of *Cell Biologics* Products**

CD1 Mouse Bone Marrow Mononuclear Cells from *Cell Biologics* are distributed for internal research purposes only. Our products are not authorized for human use, for in vitro diagnostic procedures or for therapeutic procedures. Transfer or resale of any *Cell Biologics*' cells or products from the purchaser to other markets, organizations or individuals is prohibited by *Cell Biologics*, without the company's written consent. *Cell Biologics*' Terms and Conditions must be accepted before submitting an order.

### **Disclaimer**

Investigators should handle the cells that they receive from *Cell Biologics* with caution and treat all Cells as potential pathogens, since no test procedure can completely guarantee the absence of infectious agents.

### **Warranty and Liability**

*Cell Biologics*' guarantee applies only to your purchase of *Cell Biologics*' cells with *Cell Biologics*' Media and Coating Solution, for appropriate cell culture and cell testing following *Cell Biologics*' online protocols within 35 days from the date of product delivery.

## Primary Cell Culture Protocol

All cell culture procedures must be conducted in a bio-safety cabinet.

Any and all media, supplements, and reagents must be sterilized by filtration through a 0.2 µm filter.

Use aseptic technique to prevent microbial contamination.

Cryo-preserved cells must be stored in liquid nitrogen or seeded immediately upon arrival.

### Medium

Review the information provided on the *Cell Biologics* website about appropriate culture media (e.g. serum and other supplements). Use pre-warmed (37°C) cell culture media (30-50 ML) to recover cryo-preserved cells and when changing media or splitting cells.

### Cell recovery from cryovial

- Quickly thaw cells in cryo-vial by incubating them in a 37°C water bath for <1 min until there is just a small bit of ice left in the vial.
- Promptly remove the vial and wipe it down with 70% ethanol.
- Transfer cells from the vial to a sterile centrifuge tube. Add 8-10 ml of pre-warmed *Cell Biologics* Cell Culture Medium.
- Flush the vial with an additional 0.5-1 ml of medium to ensure complete transfer of cells to the centrifuge tube.
- Centrifuge cells at 100 g for 5 minutes.
- Aspirate the supernatant and resuspend the cell pellet in 6 ml of *Cell Biologics*' Cell Culture Growth medium.
- Add resuspended cells into a plate (tissue culture treated)

### Recommended Cell Seeding

- 0.7-0.8 million cells are seeded per well of a 12-well plate or 1-1.5 million macrophages are seeded per well of a 6-well plate.
- Place a plate in a humidified, 5%-CO<sub>2</sub> incubator at 37°C until experiments.
- Change fresh cell culture medium every 24-48 hours.
- Cells should be checked daily under a microscopy to verify appropriate cell morphology.

### Note

- Please send us the cell images (>90% confluence) if you have any question or problem with cultured cells.
- Per request, a Certificate of Analysis will be provided for each cell lot purchased.