

Tribo™ MEF (Catalog# TBS8012)**DESCRIPTION**

Tribo™ Mouse Embryonic Fibroblast (MEF) cells are primary cells that have been isolated from mouse embryos at day 12. The product is tested for inducing differentiation into adipocytes and various other cell types.

APPLICATIONS

Cell cultures as feeder cells and for differentiation.

KEY FEATURES

- Potent adipocyte differentiation inducing activity.
- Maintains undifferentiated status for longer.
- High germline transmission efficiency.

STORAGE CONDITIONS

The product, when stored in liquid nitrogen, can last 1 year from the manufacturing date.

SHIPPING

Shipped on dry ice or in tissue culture flask. Place the vial in liquid nitrogen upon receiving. If shipped in a tissue culture flask, change media immediately upon receiving and place cells in tissue culture incubator for recovery.

MAINTANENCE of the MEF

For cells received in vials: Thaw frozen cells rapidly (< 1 minute) in a 37°C water bath, and dilute the thawed cells slowly, using pre-warmed growth medium. (DMEM + 10% fetal calf serum + Penicillin-streptomycin (5 mg/mL). Grow cells at 37°C with 5% CO₂ till cells are 80-90% towards splitting.

For cells received in culture flask: Grow cells in DMEM + 10% fetal calf serum + Penicillin-streptomycin (5 mg/mL) to 80-90% confluency.

Differentiation into adipocytes: Grow MEF cells to 90-100% confluency in DMEM + 10% calf serum + Penicillin-streptomycin (5 mg/mL) at which point the cells can be used with the Adipocyte Differentiation Kit (TBS8017). Dilute C1 and C2 1:1000 into the differentiation media (DMEM +10% fetal bovine serum + Penicillin-streptomycin (5 mg/mL), filter the media and treat cells for 2 days. At day 3, dilute C3 1:1000 to the differentiation media (DMEM +10% fetal bovine serum + Penicillin-streptomycin (5 mg/mL), filter the media and treat cells for another 3 days. Cells will start to accumulate lipid and change media every 2 days with the differentiation media (DMEM +10% fetal bovine serum + Penicillin-streptomycin (5 mg/mL). Cells will be ready for use at day 10-14.

RELATED PRODUCTS

Adipocyte Differentiation Cocktail (Catalog# TBS8017)

Germline Transmission Qualified Fetal Bovine Serum (FBS)(Catalog# TBS8001)

ESC/iPSC-qualified Fetal Bovine Serum (FBS) (Catalog# TBS8002)

0.1% Gelatin Solution (Catalog# TBS8004)

1x PBS (Catalog# TBS5003, Sterile)

AP Staining Kit I (Catalog# TBS2080)

AP Staining Kit II (Catalog# TBS2085)

This product is for *in vitro* research use only and is not intended for use in humans or animals in therapeutic or diagnostic procedures.