Tribioscience

Tribo™ Adipocyte Differentiation Cocktail (Catalog# TBS8017)

DESCRIPTION

Tribo™ Adipocyte Differentiation Cocktail is used for adipocyte differentiation from mouse and human preadipocytes as well as mouse embryonic fibroblasts. The product is tested for inducing adipocyte differentiation from mouse cell lines 3T3L1 and OP9 cells, as well as mouse stromal vascular cells (Fig.1).

APPLICATIONS

Cell cultures for mouse and human preadipocytes differentiation to adipocytes.

KEY FEATURES

- Potent adipocyte differentiation inducing activity.
- Longer maintaining undifferentiated status.
- High germline transmission efficiency.

KIT CONTENT:

C1: 100 µL; C2: 100 µL; C3: 100 µL
The cocktail can be diluted 1000 times for use.

STORAGE CONDITIONS

The product can be stored for 1 year from the date of manufacture between - 20°C to - 80°C. DO NOT store it in an auto-defrost or frost-free freezer.

SHIPPING

Shipped on dry ice. Place in < -20°C upon receiving.

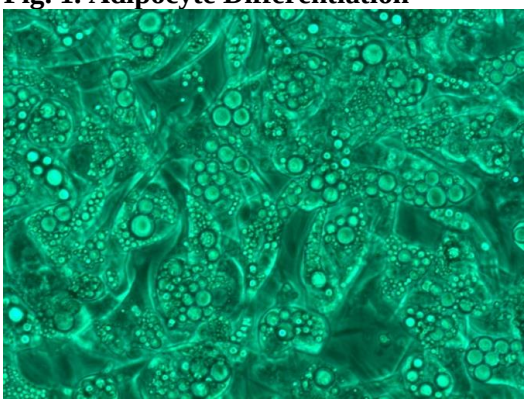
DIFFERENTIATION PROCEDURE

For 3T3L1 cells: Grow preadipocytes to 90-100% confluency in DMEM + 10% calf serum + Penicillin-streptomycin (5mg/mL). Dilute C1 and C2 1:1000 into the differentiation media (DMEM + 10% fetal bovine serum + Penicillin-streptomycin (5mg/mL), filter the media and treat cells for 2 days. On day 3, dilute C3 1:1000 to the differentiation media (DMEM + 10% fetal bovine serum + Penicillin-streptomycin (5mg/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 (5mg/mL). Cells will be ready for use on day 10-14.

For OP9 cells: Grow cells in α-MEM + 20% fetal bovine serum + Penicillin-streptomycin (5mg/mL) to 90-100% confluency. Dilute C1 and C2 1:1000 into the same media and filter it before treating cells for 2 days. On day 3, dilute C3 1:1000 into the same media and filter before treating cells for another 2 days. Change media every 2 days to allow for lipid accumulation. Cells will be ready for use at day 6-8.

For mouse stromal vascular cells: Grow mouse stromal vascular cells to 90-100% confluency in DMEM + 10% calf serum + Penicillin-streptomycin (5mg/mL). Dilute C1 and C2 1:1000 into the differentiation media (DMEM +10% fetal bovine serum + Penicillin-streptomycin (5mg/mL), filter the media and treat cells for 2 days. On day 3, dilute C3 1:1000 to the differentiation media (DMEM +10% fetal bovine serum + Penicillin-streptomycin (5mg/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 (5mg/mL). Cells will be ready for use on day10-14.

Fig. 1. Adipocyte Differentiation



RELATIVE PRODUCTS

ESC/iPSC-qualified FBS (TBS8002)
PBMC qualified FBS(TBS8015)
MCF10 Medium (TBS8024)
EMEM Medium (TBS8027)
Hams F12 Medium (TBS8032)
MCDB153 Medium (TBS8034)
MCF7 Medium (TBS8047)
DMEM-High Glucose Medium (TBS8061)
RPMI16040 Medium (TBS8063)
M2 Mouse embryonic Medium (TBS8070)
KSOM Mouse embryonic medium (TBS8071)
HTF embryonic Medium (TBS8072)
B-27 Supplement (TBS8079)
N-2 Supplement (TBS8080)
DMEM-F12 medium (TBS8083)
MSC Medium (TBS8021)

Research Use Only.

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