

EmbryoMax® MEF Conditioned Media Stem Cell Media

Cat. # SCM103

Pack Size: 100 ml

Storage: -80°C

FOR RESEARCH USE ONLY
NOT FOR USE IN DIAGNOSTIC PROCEDURES
NOT FOR HUMAN OR ANIMAL CONSUMPTION



Data Sheet

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Background

Traditionally, human embryonic stem cell (hESC) or induced pluripotent stem cell (iPSC) culture require mouse embryonic fibroblasts (MEF) support. This requirement makes the protocol complicated and variable. MEF conditioned medium (MEFCM) contains all the growth factors needed in hESC/iPSC culture, eliminating the routine preparation of feeder cells. It is a ready-to-use product for the serum/feeder-free culture of human ES/IPS cells.

Each batch of EmbryoMax® MEF Conditioned Media has been tested for hES/iPS cells pluripotency. The media requires an additional 10 ng/ml of bFGF to be added once thawed before use.

Storage Conditions

Store at -20C until expiration date on label.

Quality Control Testing

Mycoplasma Testing: PASSED

Bacterial Testing: PASSED

Fungi Testing: PASSED

Protocol

1. Coat culture dish with Matrigel the day before plating.
2. Wash Matrigel (BD Biosciences Cat# 354277) coat dishes with DMEM/F12 medium.
3. Resuspend hESC pellets in EmbryoMax® MEF Conditioned Media supplemented with 10 ng/ml bFGF.
4. Split cells at 1:3 to 1:5 ratio every 4 to 5 days using 1mg/ml Dispase (diluted with DMEM/F12).

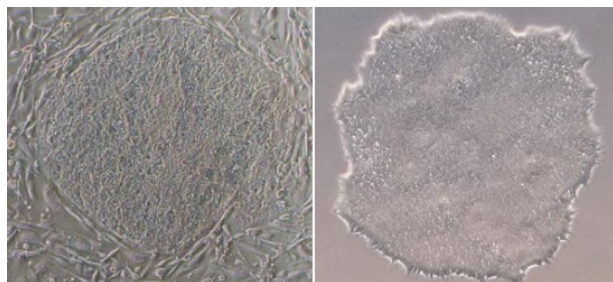


Image 1. Human IPS cells grown on MEFS in serum containing media (left) and in EmbryoMax MEFCM without feeders (Right). Undifferentiated cells in both conditions contain have a high ratio of nucleus to cytoplasm, prominent nucleoli, and compact colony structure.

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RELATED PRODUCTS

cat #	description
PMEF-CFL	EmbryoMax PMEF, Strain CF1, Untreated
PMEF-CF	EmbryoMax PMEF, Strain CF-1, Mitomycin C Treated
PMEF-CF-P1	EmbryoMax PMEF, Strain CF1, Untreated, Passage 1
PMEF-CFX	EmbryoMax PMEF, Strain CF-1, Irradiated
PMEF-H	EmbryoMax PMEF, Hygromycin Resistant, Mitomycin C Treated
PMEF-HL	EmbryoMax PMEF, Hygromycin Resistant, Untreated
PMEF-N	EmbryoMax PMEF, Neomycin Resistant, Mitomycin C Treated
PMEF-NL	EmbryoMax PMEF, Neomycin Resistant, Untreated
PMEF-NL-P1	EmbryoMax PMEF, Neomycin Resistant, Untreated, Passage 1
ESG1107	ESGRO® mLIF Medium Supplement, 10 ⁷ units
SLM-220-B	EmbryoMax DMEM (1X), with 4,500mg/L Glucose, 2.25g/L Sodium Bicarb, without L-Glut and Sodium Pyruvate
ES-009-B	EmbryoMax Fetal Bovine Serum
TMS-AB2-C	EmbryoMax Penicillin-Streptomycin Solution, 100X
TMS-002-C	EmbryoMax L-Glutamine Solution (100X), 200mM
TMS-001-C	EmbryoMax MEM, Non Essential Amino Acids (100X)
ES-008-D	EmbryoMax Nucleosides (100X)
ES-007-E	EmbryoMax 2-Mercaptoethanol (100X)
BSS-1005-A	Dulbecco's Phosphate Buffered Saline (1X)

Please visit www.emdmillipore.com for additional product information, test data and references

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