



Embryoid Body Formation Medium

Product Information

Catalog Number **ASM-5012**
ASM-5013

Description

Embryonic stem (ES) cells are pluripotent cells derived from the inner cell mass (ICM) of preimplantation embryos and have the unique ability to differentiate into cells comprising all three embryonic germ layers (ectoderm, mesoderm and endoderm). The pluripotency of ES cells or induced pluripotent stem (iPS) cells can be tested *in vitro* or *in vivo*. The three germ layers formed *in vitro* proceed through embryoid bodies (EB) when the pluripotent cells are cultured in EB formation medium.

ASC's embryoid body formation medium was formulated based on a serial of publications. It is optimized for human ES cells but works for human iPS cells as well. For most of cell lines, the EB can form in 4 days.

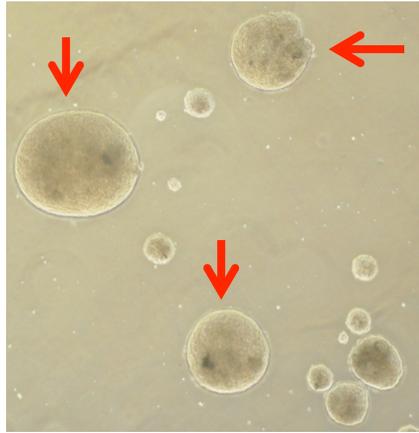


Figure. Appearance of embryoid bodies after culturing human ES cells in EB formation medium (ASM-5012).

Size 100 mL, 500 mL (5 X 100 mL)

Application Embryoid Body Formation

Storage -20°C until ready to use. Upon thawing, store at 2-8°C for up to one month. Avoid repeat freeze/thaw cycles.

Shipping Shipped on dry ice.

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Protocol

Human ESC/iPSC culture procedure using hESC/iPSC-Sure™ Serum- and Feeder-free medium:

1. When the undifferentiated hESC/iPSC colonies are ready to split, aspirate the medium and dissociate cells by collagenase IV (1mg/mL).
2. Harvest cells and resuspend them in embryoid body formation medium. Plate cells on ultra-low-attachment 6-well plate or set up hanging drops (20µl/drop), culture in 37°C, 5% CO₂.
3. Observe the culture under microscope every day. Usually the EBs arise in 1 to 4 days. For some special lines, the EB can form in 7 days.