



iMEF (irradiated mouse embryonic fibroblasts)

ORDERING INFORMATION

Catalog Number: PSC001

Size: 5 vials; ~6 x 10⁶ cells/vial

Cell Type: Irradiated primary mouse embryonic fibroblast cells at passage 3

Storage: Liquid nitrogen

Description

Mouse embryonic fibroblasts (MEF) were isolated from E13.5 CF1 embryos after removal of brain and visceral tissue. The MEF were then mitotically inactivated at passage 3 by gamma irradiation and cryopreserved.

Irradiated MEF are used to support the undifferentiated expansion of human (1) or mouse (2) embryonic stem (ES) cells in combination with the appropriate growth medium and growth factor supplements.

Cells Provided

Irradiated mouse embryonic fibroblasts - Approximately 3 x 10⁷ cells total; 6 x 10⁶ cells/vial.

Protocol and Additional Reagents

For a detailed protocol to thaw the cells, please visit the R&D Systems website at www.RnDSystems.com/go/iMEFprotocol.

Storage

Store in liquid nitrogen for up to 2 years.

Quality Control

R&D Systems iMEF are tested for their ability to support undifferentiated growth of BG01V human ES cells as assessed by Oct4 and SSEA-4 expression. They are mycoplasma negative as tested by the MycoProbe™ mycoplasma detection kit (R&D Systems, Catalog # CUL001B) and negative for microbial contamination.

Precautions

This product contains 10% dimethylsulfoxide (DMSO).

References

1. Thomson, J.A. *et al.* (1998) *Science* **282**:1145.
2. Nagy, A. *et al.* (2003) *Manipulating the Mouse Embryo*. Cold Spring Harbor Laboratory Press.