



## PRODUCT DATA SHEET

### CF-1 Primary Mouse Embryonic Fibroblast (PMEF)

Catalog number: 01-01 PMEF/CF-1

Lot number: CF-1, 241210 (obtained from E 13.0)

Morphology: Fibroblast

Freezer medium: 20% FBS, 10% DMSO, 70% DMEM.

Medium renewal: 2 to 3 times weekly.

Growth properties: Monolayer.

Comments: These cells are primary cells. We supply them as passage 0. These cells were washed, trypsinized and cryopreserved.

Propagation: DMEM (Thermo Fisher Scientific) with 10% fetal bovine serum + 1% penicillin-Streptomycin (5,000 U/ml – 5,000 micrograms/ml).

Quality control: Post-Thaw-Viable cells, 97%.

Date of Manufacture: Dec. 10, 2024.

#### Potential Biological Contaminants Tests:

Agents	Tests	Results	Date
Mycoplasma	Mycoplasma Test	Negative	12/14/2024
Bacteria	Nutrient agar medium	Negative	12/14/2024
Fungi	Sabouraud medium	Negative	12/14/2024

Shipped: Frozen in dry ice

Primary Mouse Embryonic Fibroblasts (PMEFs) are isolated from CF-1 mouse embryos at E13 day. These are primary cells and as such have a limited life span in culture. A healthy state of culture is maintained during cultivation. We used virus and pathogen free mice. We have 25+ years of tissue culture experience in preparation of these primary cells.

These cells should be expanded and mitotically inactivated to form a feeder layer to be used to support the growth of human, or mice embryonic stem (ES) cells and induced pluripotent cells (iPSCs). When grown under optimal conditions alone with inactivated feeder cells, ES cells can be maintained in culture for many passages, retaining their non-differentiated morphology and pluripotent properties. The feeder cells secrete several important growth factors into medium that may play roles in maintaining the pluripotency of ES cells.

Characteristics of CF-1 MEF cells:

- There are primary cells, and they have a limited life span in vitro.
- Cells grow well in most brands of tissue culture plates.
- Store in liquid nitrogen until use.