

Patent title: Methods and Materials for Culturing Murine Embryonic Stem Cells

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Abstract:

This disclosure provides methods for culturing murine ES cells in an undifferentiated state using human foreskin fibroblasts (HFF) feeder layer cells in the absence of exogenous Leukemia Inhibitory Factor (LIF).

Media used to culture murine ES cells is well described and can be obtained commercially (see, for example, Invitrogen (Carlsbad, Calif.) and **Celprogen (San Pedro, Calif.)**). Culture medium generally includes a carbohydrate source (e.g., glucose and/or sodium pyruvate), serum or serum replacer, amino acids and inorganic salts. Dulbecco's Modified Eagle's Medium (DMEM) is a common medium used in cell culture and can be supplemented and/or modified for particular cell types as necessary. See, also, Tessarollo (2001, *Methods Mol. Biol.*, 185:27-33) for a description of mouse ES cell culture methods.