Mouse ES Basal Medium

Basal medium designed for the growth of mouse embryonic stem (ES) cells

Cat. No.: 01-171-1
Store at: 2-8°C

Instructions for Use

Product Description

Mouse embryonic stem (ES) cells are pluripotent cells derived from the inner cell mass of the blastocyst. Undifferentiated ES cells can be maintained in-vitro for extended periods without loss of their capacity to differentiate to all cell lineages when reimplanted back into a blastocyst. ES cells may differentiate in-vitro to a variety of cell types including neuronal, muscle, endothelial and hematopoietic progenitors. General culture conditions are well established and usually require ES cells to be grown on inactive feeder cell layer or on gelatin-coated plates with Leukemia Inhibitory Factor (LIF) in the culture medium. Mouse ES Basal Medium optimized to grow and maintain undifferentiated mouse embryonic stem cells. The medium may be used with the addition of Foetal Bovine Serum (FBS) or with any serum replacement designed for mouse ES cells. The medium contains stable glutamine dipeptide.

Precaution and Disclaimer

- Do not use if a visible precipitate is observed in the medium.
- Do not use Mouse ES Basal Medium beyond the expiration date indicated on the product label.

Storage and Stability

Mouse ES Basal Medium should be kept at 2-8°C. Protect the medium from light.

Instructions for Use

Before use, the medium should be supplemented with the following:
Foetal Bovine Serum (FBS), 10% or serum replacement
Mercaptoethanol, 0.1mM
LIF, 1000units/ml: only if gelatin-coated plates are used
Antibiotics (if desired). If serum replacement is used, it is recommended to use a lower concentration of antibiotics
The medium can be used with feeder layer dependent ES cell lines or with feeder independent ES cell lines using gelatin-coated plates (see: 0.1% gelatin, Cat. No. 01-944-1).

Note that the medium already contains L-glutamine in a stable form.
Each bottle should be reconstituted by adding 5ml sterile distilled water, using a sterile syringe. After reconstitution, each ml will contain 5-10mg of protein.

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