

OriCell™ Human Embryonic Stem Cell Growth Medium

Catalog No. HUXES-90011

Product Description:

Human Embryonic Stem Cell Growth Medium consists of optimized Human Embryonic Stem Cell Basal Medium, pre-selected Fetal Bovine Serum and supplements. This product has been developed for the optimal expansion and maintenance of Human Embryonic Stem Cells (Cat. No. HUXES-01001). It maintains the undifferentiated state and retains the pluripotential phenotype of Human Embryonic Stem Cells.

The product is intended for laboratory research use only, not for drug, house hold, or other uses.

Kit Components:

Human Embryonic Stem Cell Basal Medium (Cat. No. HUXES-03011-385)	385 mL
Serum Replacement (Cat. No. SRN-19001-60)	60 mL
Human Embryonic Stem Cell-Qualified Fetal Bovine Serum (Cat. No. HUXES -05001-40)	40 mL
Penicillin-Streptomycin	5 mL
Glutamine	5 mL
Non-essential Amino Acid	5 mL
bFGF (0.5 mg/mL)	100 µ L
2-Mercaptoethanol	3.5 µ L

Instructions for Use:

1. Prior to use, thaw Human Embryonic Stem Cell-Qualified Fetal Bovine Serum and Serum Replacement under refrigeration (2 to 8°C) over night or until completely thawed. Gently swirl the bottles to ensure homogeneity. Human Embryonic Stem Cell-Qualified Fetal Bovine Serum has been heat-inactivated and is ready to use after thawing.

Note: The thawed serum may contain some flocculent precipitates. The presence of these substances in serum does not alter the performance characteristics of the product. It is not recommended to filter the serum to remove these precipitates. Doing so may result in the loss of some serum nutrients.

2. About 30 minutes prior to use, thaw Penicillin-Streptomycin solution, Glutamine solution and Non-essential Amino Acid solution at room temperature. Gently swirl the vials to ensure homogeneity.
3. About 10 minutes prior to use, thaw bFGF and 2-Mercaptoethanol at room temperature.

Note: Centrifuge the vials briefly at low speed (5,000g) before removing the caps to ensure recovery of entire content.

4. Disinfect with 70% v/v ethanol the external surfaces of the bottles/vials for every component in the kit.
Allow ethanol to evaporate away.
5. In a laminar flow hood aseptically open the bottles/vials.
6. Transfer the entire amount of Human Embryonic Stem Cell-Qualified Fetal Bovine Serum, Penicillin-Streptomycin solution, Glutamine solution and Non-essential Amino Acid solution into Human Embryonic Stem Cell Basal Medium.
7. Rinse the vials with the medium and transfer the rinse medium back to the bottle of basal medium.
8. To transfer the entire amount of LIF and 2-Mercaptoethanol, add 0.5 mL medium to the vials, mix by pipeting and then transfer the mixture back to the bottle of basal medium as much as possible.
9. Repeat step 8 several times.
10. Gently swirl the fully supplemented complete medium to ensure a homogeneous mixture. The complete medium is now ready to use.

Note: Although each component in this kit is supplied sterile, it is strongly recommended to filter the fully supplemented complete medium.

Stability/Storage:

All products should be stored in the dark.

Human Embryonic Stem Cell Basal Medium is stable at 2 to 8°C for up to one year. Other components are stable at -20°C for up to two years. These products should be discarded beyond the labeled expiration date.

Once prepared, the fully supplemented complete medium can be stored for up to one month when stored in the dark at 2 to 8°C.

For optimal performance, repeated warming/cooling and freeze-thawing should be avoided.

Quality Control:

Human Embryonic Stem Cell Growth Medium is performance tested on Human Embryonic Stem Cells. Standard evaluation includes:

1. Sterility test (bacteria, fungi, mold and mycoplasma)
2. pH test
3. Osmolality
4. Endotoxin

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