

User Manual

OriCell™ Human Mesenchymal Stem Cell Growth Medium

Cat. No. HUXMX-90011

PRODUCT DESCRIPTION:

OriCell™ Human Mesenchymal Stem Cell Growth Medium consists of optimized Human Mesenchymal Stem Cell (hMSC) Basal Medium and pre-selected fetal bovine serum. This product has been developed for the optimal proliferation of human mesenchymal stem cells (hMSCs), which can be expanded through multiple passages while retaining the ability to differentiate into osteoblasts, adipocytes, and chondrocytes.

The product is intended for laboratory research use only. It is not intended for diagnostic, therapeutic, clinical, household, or any other applications.

KIT COMPONENTS:

Human Mesenchymal Stem Cell (hMSC) Basal Medium (Cat. No. HUXMX-03011)	440 mL
Human Mesenchymal Stem Cell (hMSC)-Qualified Fetal Bovine Serum (Cat. No. HUXMD-05001)	50 mL
Penicillin-Streptomycin	5 mL
Glutamine	5 mL

INSTRUCTIONS:

Preparation of the Complete Medium

1. Prior to use, thaw the hMSC-Qualified Fetal Bovine Serum at 2-8°C overnight or until completely thawed. Gently swirl the bottle to ensure homogeneity. The 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 the Penicillin-Streptomycin solution and Glutamine solution at room temperature. Gently swirl the vials to ensure homogeneity.
3. Disinfect the external surfaces of the bottles/vials for every component in the kit with 70% v/v ethanol. Allow ethanol to evaporate.
4. Aseptically open the bottles/vials inside a laminar flow hood.
5. Transfer the entire amount of hMSC-Qualified Fetal Bovine Serum, Penicillin-Streptomycin solution, and Glutamine solution into the hMSC Basal Medium.
6. Rinse each vial with a small amount of basal medium. Subsequently transfer the rinse medium back into the bottle of basal medium.
7. 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 AND STORAGE:

All products should be stored in the dark. Human Mesenchymal Stem Cell Basal Medium is stable at 2-8°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 2-8°C.

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

QUALITY CONTROL:

OriCell™ Human Mesenchymal Stem Cell Growth Medium has been tested for performance on human mesenchymal stem cells. The standard evaluation includes:

- Sterility test (bacteria, fungi, and mycoplasma)
- pH test
- Osmolality
- Endotoxin

RELATED PRODUCTS:

Product	Catalog Number
OriCell™ Human Mesenchymal Stem Cells	HUXMA-01001

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