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User Manual

OriCell™ Mouse Mesenchymal Stem Cell Growth Medium

Cat. No. MUXMX-90011

PRODUCT DESCRIPTION:

OriCell™ Mouse Mesenchymal Stem Cell Growth Medium consists of optimized Mouse Mesenchymal Stem Cell (mMSC) Basal Medium and pre-selected fetal bovine serum. This product has been developed for the optimal proliferation of mouse mesenchymal stem cells (mMSCs), which can be expanded through multiple passages while retaining the ability to differentiate into osteoblast, adipocyte and chondrocyte.

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

***Note*: This medium kit has been optimized for all OriCell™ Mouse MSC series only and is not recommended for other cell types.**

KIT COMPONENTS:

Mouse Mesenchymal Stem Cell (mMSC) Basal Medium (Cat. No. MUXMX-03011)	440 mL
Mouse Mesenchymal Stem Cell (mMSC)-Qualified Fetal Bovine Serum (Cat. No. MUXMX-05001)	50 mL
Penicillin-Streptomycin	5 mL
Glutamine	5 mL

INSTRUCTIONS:

Preparation of the Complete Medium

1. Prior to use, thaw the mMSC-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 mMSC-Qualified Fetal Bovine Serum, Penicillin-Streptomycin solution, and Glutamine solution into the mMSC 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. Mouse 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, avoid repeated warm-cooling and freeze-thawing.

QUALITY CONTROL:

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

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

RELATED PRODUCTS:

Product	Catalog Number
OriCell™ Strain C57BL/6 Mouse Mesenchymal Stem Cells	MUBMX-01001
OriCell™ Strain Balb/C Mouse Mesenchymal Stem Cells	MUCMX-01001