

User Manual

OriCell™ Astrocyte Growth Medium

Cat. No. GXXAC-90011

PRODUCT DESCRIPTION:

OriCell™ Astrocyte Growth Medium consists of optimized Astrocyte Basal Medium, cell culture supplements, and pre-screened fetal bovine serum. This product has been developed for the optimal expansion and maintenance of cortical astrocytes.

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

KIT COMPONENTS:

Astrocyte Basal Medium (Cat. No. GUXAC-03011)	410 mL
Astrocyte-Qualified Fetal Bovine Serum (Cat. No. GXXAC-05001)	75 mL
Glutamine	5 mL
Penicillin-Streptomycin	5 mL
Non-essential Amino Acid	5 mL
2-Mercaptoethanol	500 µL

INSTRUCTIONS:

Preparation of the Complete Medium

1. Prior to use, thaw the Astrocyte-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, Glutamine solution, and Nonessential Amino Acid solution at room temperature. Gently swirl the vials to ensure homogeneity.
3. About 10 minutes prior to use, thaw 2-Mercaptoethanol at room temperature.



Note: Centrifuge the vials briefly at low speed before removing the caps to ensure recovery of the entire content.

4. Disinfect the external surfaces of the bottles/vials for every component in the kit with 70% v/v ethanol. Allow ethanol to evaporate.
5. Aseptically open the bottles/vials inside a laminar flow hood.

6. Transfer the entire amount of Astrocyte-Qualified Fetal Bovine Serum, Penicillin-Streptomycin solution, Glutamine solution, and Nonessential Amino Acid solution into the Astrocyte Basal Medium.
7. Rinse each vial with a small amount of basal medium. Subsequently transfer the rinse medium back into the bottle of basal medium.
8. To transfer the entire amount of 2-Mercaptoethanol, add 0.5 mL of medium to the vials, mix by pipetting, and then transfer the entire mixture back into the bottle of basal medium.
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 AND STORAGE:

All products should be stored in the dark. Astrocyte 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™ Astrocyte Growth Medium has been tested for performance on cortical astrocytes. The standard evaluation includes:

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

RELATED PRODUCTS:

Product	Catalog Number
OriCell™ C57BL/6 Mouse Astrocytes	BCCAC-00001
OriCell™ F344 Rat Astrocytes	FCCAC-00001
OriCell™ SD Rat Astrocytes	SCCAC-01001
OriCell™ Wistar Rat Astrocytes	WCCAC-01001

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