cyagen | OriCell

User Manual

OriCell™ Complete Medium

For Renca Cell Line

Catalog No. CMM4-0101

We help you discover life

Introduction

OriCell™ Complete Medium For Renca Cell Line is specially formulated and developed by our R&D team. It consists of an optimized basal medium, fetal bovine serum (FBS) and other supplements, tailored to the specific growth requirements of the Renca cells.

Extensive cell culture data have demonstrated that this product effectively supports robust and sustained proliferation of Renca cells in vitro. This ensures consistent performance over extended passages, helping researchers achieve reliable experimental results and maximize cell yield.

Note: **This product is intended for research use only and is not for diagnostic, therapeutic, clinical, household, or any other applications.**

When citing our products in academic publications, please use the following format: "OriCell™ [Product Name] + [Catalog Number], from Cyagen Biosciences."

Product Information

Components	Catalog Number	Volume	Storage
OriCell™ Basal Medium For Cell Culture	BRPI-03011	440 mL	4 °C
OriCell™ Fetal Bovine Serum (Standard Quality)	FBSST-01033	50 mL	-20 °C
OriCell™ Non-Essential Amino Acid Cell Culture Supplement (100X)	NEAA-10201	5 mL	4 °C
OriCell™ L-Glutamine (100X)	SGLU-10201	5 mL	-20 °C
OriCell™ Sodium Pyruvate	SCSP-10301	500 μL	-20 °C

QC

- Pass the detection of bacteria, fungi, mycoplasma, and endotoxins.
- Pass the detection of osmotic pressure and pH.
- Pass the detection of product quality.

Please refer to "COA" for details.

General Handling Principles

1. Maintain strict aseptic technique. Ensure complete sterility throughout all procedures, particularly within the laminar flow hood and incubator.
2. Follow standardized protocols. Adhere strictly to the product manual instructions. Implement rigorous control over experimental variables and include appropriate parallel controls.
3. Ensure proper storage and use. Store all components according to specified conditions and use them promptly to ensure optimal performance.
4. Aliquot for long-term storage. If the entire volume will not be used up immediately, prepare the medium in batches according to the specified component volume ratios and store in aliquots.

Product Stability and Storage Conditions

1. All components must be stored away from light.
2. The basal medium and NEAA (Non-Essential Amino Acids) should be stored at 4 °C with a shelf life of 1 year. The included FBS (Fetal Bovine Serum) and sodium pyruvate should be stored at -20 °C with a shelf life of 2 years. And L-glutamine should be stored at -20 °C with a shelf life of 1 year.
3. Once prepared, the medium has a shelf life of 1 month when stored at 4 °C. The shelf life may be extended up to a maximum of 45 days, provided that culture conditions remain stable, the container is properly sealed, and repeated temperature fluctuations are avoided.
4. Use all components before the expiration dates. Expired components may severely compromise culture performance.

Preparation of Complete Medium

Materials Required

- OriCell™ Complete Medium For Renca Cell Line (Cat. No.: CMM4-0101)
- Clean, sterile, and stable quality disposable consumables (pipettes, pipette tips, centrifuge tubes, etc.)
- Clean sealing film
- Aluminum foil and other light-avoiding materials

Steps

1. At least 6 hours before preparation, place the OriCell™ Fetal Bovine Serum (Cat. No.: FBSST-01033) in a refrigerator at 4 °C to allow it to thaw completely.

   Note: **Flocs (primarily composed of fibrin) may appear in thawed serum and will not affect product performance. Removal of flocs is generally unnecessary unless the cell culture system demands a high degree of purification.**

2. At least 30 minutes before preparation, place the OriCell™ L-Glutamine (100X) (Cat. No.: SGLU-10201) and OriCell™ Sodium Pyruvate (Cat. No.: SCSP-10301) in a refrigerator at 4 °C to allow it to thaw completely.
3. Carefully wipe the outer packaging of all components with 75% ethanol. Open the package inside a clean bench (laminar flow hood).
4. Add all of the serum (Cat. No.: FBSST-01033), NEAA (Cat. No.: NEAA-10201), L-glutamine (100X) (Cat. No.: SGLU-10201) and sodium pyruvate (Cat. No.: SCSP-10301) to OriCell™ Basal Medium (Cat. No.: BRPI-03011).
5. Tighten the cap of the basal medium bottle and swirl the bottle gently to mix thoroughly.

   Note:

1) If the medium will not be used up immediately, we recommend preparing in batches. Please prepare the required amount according to the ratio of each component in the kit. Any remaining components must be stored according to their respective storage conditions and should not be subjected to multiple freeze-thaw cycles.

2) Please choose whether to add antibiotics (e.g., Penicillin/Streptomycin) according to your own needs. If required, it should be prepared or purchased separately.

6. Seal the bottle with Parafilm, wrap it in aluminum foil to protect from light, and label it with the product name, preparation date, and other relevant information.

   Note: All components in the OriCell ™ Complete Medium For Renca Cell Line are strictly aseptically controlled. Under normal circumstances, we do not recommend sterilizing it again. However, if there is a risk of contamination during the preparation process, the complete medium can be filtered and sterilized.

Cyagen Biosciences (Suzhou) Inc. reserves all rights to the technical documents of OriCell™ cell culture products. Without the written permission of Cyagen Biosciences (Suzhou) Inc. any part of this document shall not be adapted or reprinted for other commercial purposes.