

User Manual

OriCell™ Serum Free Medium

For Rat Neural Stem Cells

Catalog No. RAXNF-90011



Introduction

OriCell™ Serum Free Medium for Rat Neural Stem Cells is specially formulated and developed by our R&D team. It consists of an optimized basal medium and essential growth supplement, all tailored for the culture of rat neural stem cells.

Extensive cell culture data have demonstrated that this product supports the long-term maintenance and healthy growth of rat neural stem cells in vitro.

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 | BDMF-03011 | 97 mL | 4 °C |
| OriCell™ Supplement For Rat Neural Stem Cell Culture | RAXNF-04011 | 3 mL | -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 has a shelf life of 1 year and should be stored at 4 °C. Other component has a shelf life of 2 years and should be stored at -20 °C.
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™ Serum Free Medium For Rat Neural Stem Cells (Cat. No.: RAXNF-90011)
- 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 30 minutes before preparation, place the OriCell™ Supplement For Rat Neural Stem Cell Culture (Cat. No.: RAXNF-04011) in a refrigerator at room temperature to allow it to thaw completely.

2. Carefully wipe the outer packaging of all components with 75% ethanol. Open the package inside a clean bench (laminar flow hood).
3. Add all of the supplement (Cat. No.: RAXNF-04011) to OriCell™ Basal Medium For Cell Culture (Cat. No.: BDMF-03011).
4. 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.

5. 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 OriCell™ Serum Free Medium For Rat Neural Stem Cells are strictly aseptically controlled. Under normal circumstances, we do not recommend sterilization again. If there is a risk of contamination during the preparation process, the complete medium can be filtered and sterilized.

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