

User Manual

OriCell™ Complete Medium For Mouse Bone Marrow Macrophage Cells

Catalog No. MUBMM-90011



Introduction

OriCell™ Complete Medium For Mouse Bone Marrow Macrophage Cells, carefully developed by OriCell™ R&D team, contains a basic medium suitable for the growth of mouse bone marrow macrophage cells, OriCell™ Premium Fetal Bovine Serum and other additives required for cell growth.

In vitro culture systems offer faster results and lower costs compared to in vivo experiments, making them particularly suitable for preliminary screening and exploratory studies. Consequently, mouse macrophages maintained in vitro have become valuable experimental models in immunology, pharmacology, and cell biology research.

Note: This product is only provided for further scientific research. It is not intended for diagnostic, therapeutic, clinical, household, or any other applications.

When citing our products in academic journals, please indicate “OriCell™ + Catalog Number, from Cyagen Biosciences (Guangzhou) Inc.”

Product Information

Components	Catalog Number	Volume
OriCell™ Basal Medium For Cell Culture	BRPI-03011	450 mL
OriCell™ Fetal Bovine Serum + Culture Supplement (For Mouse Bone Marrow Macrophage Cells)	MUBMM-05001	50 mL

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 reference "COA" for details.

General Handling Principles

1. Ensure that all equipment is kept clean and tidy.
2. Standard operation method. Please operate according to the method described in the product manual, strictly control the variables, and do a controlled experiment.
3. The ingredients should be properly stored in accordance with the storage conditions and used as soon as possible.
4. If a complete set of medium cannot be used in a short period of time, it should be prepared in batches according to the volume ratio of each component in the kit and stored in aliquots.

Product Stability and Storage Conditions

1. All ingredients must be kept in dark place.
2. The basal medium should be stored in a refrigerator at 4 °C for a period of 1 year. Other components should be stored at -20°C for a period of 2 years.

3. The prepared complete medium can be stored at 4 °C for a period of 1 month. If the culture conditions are stable, the container has great sealing performance, and there is no alternation of hot and cold condition, the period of using can be appropriately extended, but not exceed 45 days.
4. Please use all products within the expiration date. Expired ingredients may significantly affect the cell culture effect.

Preparation of Complete Medium

Materials Required

- OriCell™ Complete Medium For Mouse Bone Marrow Macrophage Cells (Cat. No.: MUBMM-90011)
- Clean, sterile, and stable quality disposable consumables (pipettes, pipette tips, centrifuge tubes, etc.)
- Clean sealing film
- Aluminum foil paper and other light-avoiding materials

Steps

1. At least 6 hours before preparation, place the OriCell™ Fetal Bovine Serum + Culture Supplement in a refrigerator at 4°C to allow it to thaw completely.

Note: There may be floccules in the thawed serum, mainly composed of fibrin, which will not affect product performance. If the required purity of the cell culture system is not extremely high, filtration or centrifugation to remove flocs is not recommended.

2. Carefully wipe the outer packaging of all components with 75% ethanol. Open the packages inside a clean bench.
3. Add all serums and supplements to OriCell™ Basal Medium For Cell Culture (Cat. No.: BRPI-03011).
4. Tighten the cap of the basal medium bottle and shake it gently and 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 you do need, please purchase them yourself.
5. Seal the bottle opening with parafilm, wrap the bottle in aluminum foil, and label it with the product name, preparation date, and other relevant information.

Note: All components in OriCell™ Complete Medium For Mouse Bone Marrow Macrophage 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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