

User Manual

OriCell™ DMEM Low-Glucose Complete Medium

Catalog No. GML9-0001



Introduction

OriCell™ DMEM Low-Glucose Complete Medium, meticulously developed by the OriCell™ R&D team, includes a basal medium and OriCell™ Fetal Bovine Serum. The OriCell™ Fetal Bovine Serum is sourced from Uruguay and undergoes multiple separation, purification, and filtration processes to ensure purity and consistent quality. This kit is suitable for the culture and assay of various tumor cells, virus packaging, and other experimental studies requiring high-quality serum.

Using this medium, we have successfully cultured multiple tumor cell lines exhibiting excellent morphology, robust proliferation, and strong colony-forming ability. Extensive cell culture data have demonstrated that the product supports healthy cell growth over extended periods in vitro.

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	BLDM-03011	450 mL
OriCell™ Fetal Bovine Serum	FBSST-01033	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 refer to "COA" for details.

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.

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 the complete medium cannot be used up immediately, prepare it in aliquots based on the volume ratio of each component in the kit, and store accordingly.

Preparation of Complete Medium

Materials Required

- OriCell™ DMEM Low-Glucose Complete Medium (Cat. No.: GML9-0001)
- 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 (Cat. No.: FBSST-01033) in a refrigerator at 4°C to allow it to thaw completely.

Note: Floccs may appear in the thawed serum, the main component of which is fibrin, which will not affect the product performance. Unless a highly purified cell culture system is required, we do not recommend removing the floccs.

2. Carefully wipe the outer packaging of all ingredients with 75% ethanol. Open the package inside a clean bench.
3. Add all of the serum to OriCell™ Basal Medium For Cell Culture (Cat No.: BLDM-03011).
4. Securely tighten the basal medium bottle cap and gently shake to ensure thorough mixing.

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 Penicillin/Streptomycin according to your own needs. If you do need, please buy it 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™ DMEM Low-Glucose Complete Medium 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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