

User Manual

OriCell™ Complete Medium For Human Umbilical Vein Endothelial Cells

Catalog No. HUVEC-90011



Introduction

OriCell™ Complete Medium For Human Umbilical Vein Endothelial Cells, carefully developed by the OriCell™ R&D team, contains a basic medium suitable for the growth of human umbilical vein endothelial cells, OriCell™ Fetal Bovine Serum and other supplements required for cell growth.

Extensive cell culture data have demonstrated that this product can maintain a good growth state of human umbilical vein endothelial cells in vitro for a long time.

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	BMNN-03011	440 mL
OriCell™ Fetal Bovine Serum	HUVEC-05001	50 mL
OriCell™ Supplements For Human Umbilical Vein Endothelial Cells Culture I	HUVEC-04011-1	5 mL
OriCell™ Supplements For Human Umbilical Vein Endothelial Cells Culture II	HUVEC-04011-2	5 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.

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 before the expiration date. Expired ingredients may significantly affect the cell culture effect.

Preparation of Complete Medium

Materials Required

- OriCell™ Complete Medium For Human Umbilical Vein Endothelial Cells (Cat. No.: HUVEC-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 (Cat. No.: HUVEC-05001), Supplements I (Cat. No.: HUVEC-04011-1), and Supplements II (Cat. No.: HUVEC-04011-2) in a refrigerator at 4°C to allow it to thaw completely.

Note: Flocs may appear in the thawed serum, the main component of which is fibrin, which will not affect the product performance. Unless the cell culture system is required for a high degree of purification, we do not recommend removing flocs.

2. Carefully wipe the outer packaging of all ingredients with 75% ethanol. Open the package inside a clean bench.
3. Add all of the supplements (Cat. No.: HUVEC-04011-1 and HUVEC-04011-2) to OriCell™ Basal Medium (Cat. No.: BMNN-03011).
4. Tighten the cap of the basal medium bottle, shake 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 Penicillin/Streptomycin according to your own needs. If you do need, please buy it yourself.

5. Seal the bottle with parafilm, wrap the bottle with aluminum foil paper, and mark the name, preparation date and other information.

Note: All components in OriCell™ Complete Medium For Human Umbilical Vein Endothelial 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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