

## User Manual

# OriCell™ Complete Medium For Human Umbilical Vein Endothelial Cells

Catalog No. HUVEC-90011



## Introduction

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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™ Premium Fetal Bovine Serum and other additives required for cell growth.

Extensive data demonstrate 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

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Components	Catalog Number	Volume
OriCell™ Basal Medium For Cell Culture	BMNN-03011	440 mL
OriCell™ Fetal Bovine Serum + Culture Supplement (For Human Umbilical Vein Endothelial Cells)	HUVEC-05001	60 mL

## QC

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- 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

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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

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1. All ingredients must be kept in dark place.
2. The basal medium must be stored in a refrigerator at 4°C for a period of 1 year. Other components must 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 seriously affect the cell culture effect.

## Preparation of Complete Medium

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### 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 + culture supplement ((Cat. No.: HUVEC-05001) in a refrigerator at 4°C to allow it 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. Use 75% ethanol to carefully wipe the outer packaging of all ingredients. Open the package in the clean bench.
3. Add all the serum and supplements to OriCell™ Basal Medium (Cat. No.: BMNN-03011).
4. Tighten the cap of the basal medium bottle, shake gently and thoroughly.

**Note:** 1) If complete medium will not be used immediately, we recommend to preparing in batches. Please prepare the required amount according to the ratio of each component in the kit, but the remaining components must be stored in accordance with their respective storage conditions and

not be frozen and thawed multiple times.

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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