

Endothelial Cell Growth Medium

Cat.-No.: C-22010

Contains:

1x C-22010 Endothelial Cell Growth Medium
1x C-39215 SupplementMix/
Endothelial Cell Growth Medium

Endothelial Cell Growth Medium MV for microvascular endothelial cells

Cat.-No.: C-22020

Contains:

1x C-22020 Endothelial Cell Growth Medium MV
1x C-39225 SupplementMix/
Endothelial Cell Growth Medium MV

To extend the shelf life, the medium-formulations above contain no growth factors or antibiotics. After adding the SupplementMix the concentrations of growth factors in the complete medium are as follows:

ECGS/H	0.4 %	0.4 %
Fetal Calf Serum	2 %	5 %
Epidermal Growth Factor	0.1 ng/ml	10 ng/ml
Hydrocortison	1 µg/ml	1 µg/ml
basic Fibroblast Factor	1 ng/ml	
Amphotericin B	50 ng/ml	50 ng/ml
Gentamicin	50 µg/ml	50 µg/ml

Maintenance of Endothelial Cell Growth Medium

Remove medium and SupplementMix from the transport box immediately after delivery. Store the medium at 4°C to 8°C in the dark, and the SupplementMix at -20°C.

Note:

The SupplementMix attached to the flask is delivered thawed without any damage and it can be frozen without losing any growth increasing activity.

Preparation of the Medium for Use

You get the complete growth medium by addition of the PromoCell SupplementMix.

1. Thaw the SupplementMix at 15°C to 25°C.
2. Remove the safety seal and open the basal medium in a laminar flow cabinet.
3. Carefully open the screwtop of a supplement and transfer the contents with a pipette to the medium. Make sure that the contents disperse and dissolve immediately in the medium. Do not touch the bottle neck with the pipette tip because this could lead to microbial contamination.
4. Note the date of addition of the SupplementMix on the bottle.
5. Close the bottle and swirl gently until a homogenous mixture is formed. The complete medium should be stored in the dark at 4°C to 8°C and can be kept for 6 weeks or at the longest until the degrade date of the basal medium.

Characteristics

The PromoCell Endothelial Cell Growth Medium is a sterile liquid culture medium for culturing endothelial cells. It is based on an optimised PromoCell formulation. The medium kit contains the base medium and all supplements required for producing the complete medium. It is possible to produce a growth medium suited to your needs by changing the concentration and the amount of the delivered supplements. Endothelial Cell Growth Medium is suitable for culturing PromoCell HUVEC, HUAEC, HPAEC resp. HDMEC as well as many other endothelial cells. The formulation is optimised for initial seeding of 5.000 cells / cm² (10.000 cells / cm² for microvascular endothelial cells) up to confluence. Feeder-layer, extracellular matrix substrates or other substances are not necessary.

Product Specification

Endothelial Cell Basal Medium is prepared from approximately 60. The pH is set at 7.4 and osmolality at 275 ± 5 mOsm / kg.

Quality Control

PromoCell Endothelial Cell Growth Medium is thoroughly tested after each production. All components (i.e. base medium, ECGS/H, growth factors, antibiotics) are tested in a stringent biological assay. Each batch is checked for HUVEC and HDMEC proliferation characteristics. The cells cultured in Endothelial Cell Growth Medium are checked regarding their morphology, the adherence rate, the colony forming efficiency and the population doubling time.

Stability and Storage

The basal medium can be stored in the dark at 4°C to 8°C for up to 5 months. The supplements can be stored for up to 6 months at -20°C. Do not heat the medium over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). If only a part of the medium is to be used, remove this amount from the bottle and heat it.

Special Note:

Do not freeze the medium. This can result in high salt concentrations by freezing out pure water which will cause irreversible damage.

A light flocculation may be seen upon thawing the SupplementMix. This precipitation does not affect the activity and can be removed by centrifuging under sterile conditions.

Cell Culture Media on Request from PromoCell

PromoCell can provide special media for cell cultures according to your specifications. We can change the supplementation by replacing certain supplements with specific substances, and change the base medium as required. We can also supply general formulations that are not in the standard range PromoCell offers you. Just ask us.

FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES.

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