

EpiGRO™ Human Ocular Epithelia Complete Media Kit

Corneal Epithelia Expansion Medium Kit

Cat. # SCMC001

Lot # See individual components

FOR RESEARCH USE ONLY
NOT FOR USE IN DIAGNOSTIC PROCEDURES
NOT FOR HUMAN OR ANIMAL CONSUMPTION

pack size: 1 kit

Store as directed



Certificate of Analysis

page 1 of 1

Description

EpiGRO™ Human Ocular Epithelia Complete Media Kit is a serum-free medium optimized for the culture of human corneal epithelial cells. It supports the growth of these cells over a period of at least 3 passages. This medium does not contain any antimicrobials or phenol red; components that can cause cell stress and “masking effects” that may influence experimental results. It is formulated for use in an incubator with an atmosphere of 5% CO₂.

Please refer to the data sheet for EpiGRO Human Corneal Epithelial Cells (Catalog No. SCCE016) for more instructions on growing cells.

Components

1. Basal Medium, 485 mL: (Part # SCMC-BM)
2. Supplement Mix (Part # SCMC001-S)

Direction for Use

Preparing the Media

- 1) Defrost growth factors at room temperature for 15-20 min and then in 37°C water bath for no longer than 5-10 min.
- 2) Spray closed containers with 70% EtOH, place in biosafety cabinet and allow to dry.
- 3) Add growth factors to basal medium. Pipette each growth factor individually and add directly to the media.
Note: NEVER combine concentrated growth factors together.
- 4) L-Glutamine is best warmed to 37°C in a water bath, and shaken to dissolve the precipitate prior to use.

Feeding the Cells

Guidelines are for a T-25 Flask. Adjust volumes according to culture surface area.

- 1) Approximate volume of complete media needed for feeding and aliquot into sterile container and pre-warm the medium to 37°C. Remove medium and feed with 5 mL of fresh supplemented medium every other day and incubate at 37°C with 5% CO₂.
- 2) Most cultures that are 50% confluent will be ready for passage the next day and should be fed with 7-8 mL of supplemented medium.
 - a. Note: More than 10 mL of medium per 25 cm² of culture surface should not be used in order to ensure that gas diffusion will be sufficient to support the cell's requirements for oxygen.
 - b. Increase feeding frequency and medium volume as cells get more confluent.

Quality Control

Each lot is checked for growth promoting activity, adherence rate, and typical morphology. In addition, all lots of media have been tested for the absence of microbial contaminants (fungi, bacteria, mycoplasma).

Parameters tested:

- Negative for bacterial and fungal growth
- pH variance: 7.5 +/- 0.2
- Rate of proliferation
- Morphology
- Osmolality 315 +/- 10 mOsm
- Endotoxin levels: < 0.5 EU/mL

Storage and Handling

Basal Medium should be stored at 2-8°C in the dark until expiration date. Do not freeze.

Supplement Mix should be stored at -20°C until expiration date.

Supplemented Medium is stable for up to 4 weeks at 2-8°C. Do not freeze the supplemented medium. For use, aliquot and pre-warm the needed amount of medium, keeping the remaining medium refrigerated at 2-8°C.

Please refer to product label for expiration date and further information

Final Supplement Concentrations (after addition to the medium)		
Supplement	Volume	Final Concentration
L-Glutamine	15 mL	6 mM
EpiFactor O	1 mL	Proprietary
Epinephrine	0.5 mL	1.0 µM
EpiFactor P	2 mL	0.4%
rh Insulin	0.5 mL	5 µg/mL
Apo-Transferrin	0.5 mL	5 µg/mL
Hydrocortisone Hemisuccinate	0.5 mL	100 ng/mL

SPECIES LEGEND: H Human Ca Canine M Mouse R Rat Rb Rabbit B Bovine P Porcine WR Most Common Vertebrates

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Please visit www.millipore.com for additional product information, test data and references

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