Endothelial Cell Growth Medium

850206

Endothelial Cell Growth Medium is the standard medium for the culture of human endothelial cells from large vessels, such as umbilical vein, umbilical artery, saphenous vein and aorta. The complete medium contains foetal calf serum, L-glutamine, ECGS/H (endothelial cell growth supplement with heparin), EGF, bFGF and hydrocortisone. For defined recombinant growth factors including VEGF instead of ECGS/H, choose Advanced Endothelial Cell Growth Medium. We offer the medium as 500 ml basal medium, on its own or together with the supplements, either as individual components or as a premixed Supplement-Mix. The individual components allow single factors to be adjusted or left out, while the Supplement-Mix is added in a single step. The basal medium is also available phenol red-free in the same formats, which avoids interference with fluorescence and colorimetric readouts as well as the weak oestrogen-like activity of phenol red. Supplements are required for use, and both supplement formats are also available separately. Once supplemented, the complete medium contains 2 % FCS (10 ml per 500 ml of basal medium).

PRODUCT DETAILS

Serum content	2 % FCS (10 ml FCS per 500 ml basal medium)
Recommended	4,000 cells/cm² (initial seeding up to approx. 90 % confluence)

Storage and stability

Store the basal medium at 2–8 °C, protected from light, and the supplements at −20 °C. Avoid repeated freeze-thaw cycles of the supplements. Once supplemented, the medium can be kept at 2–8 °C, protected from light, for up to one month. Do not freeze the medium.

Specification

pH 7.6, osmolality 285 ± 10 mOsm/kg

Supplement components

L-glutamine: 4 mM
FCS: 2 % (10 ml per 500 ml basal medium)
ECGS/H (endothelial cell growth supplement with heparin): 12 µg/ml
Human recombinant EGF: 0.1 ng/ml
Human recombinant bFGF: 1 ng/ml
Hydrocortisone: 1 µg/ml
Antibiotics (optional): gentamicin 50 µg/ml, amphotericin B 50 ng/ml

Composition table

Supplement volumes for 500 ml of basal medium. The same components are also available premixed in one bottle (Supplement-Mix, Cat. No. 850178, 23.5 ml).

Component	Volume	Cat. No.
L-glutamine	10 ml	850121
FCS	10 ml	850107
ECGS/H (endothelial cell growth supplement with heparin)	2 ml	850122
Human recombinant EGF	0.5 ml	850111
Human recombinant bFGF	0.5 ml	850138
Hydrocortisone	0.5 ml	850130
Antibiotics (optional)	3.5 ml	850119
Total (without antibiotics)	**23.5 ml**	

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