Advanced Microvascular Endothelial Cell Growth Medium

850213

Advanced Microvascular Endothelial Cell Growth Medium is used for the culture of human microvascular endothelial cells, for example from dermis, lung or heart. Defined human recombinant growth factors replace the crude endothelial cell growth supplement. The complete medium contains foetal calf serum, L-glutamine, EGF, bFGF, VEGF, Long R3 IGF-1, ascorbic acid and hydrocortisone. For a formulation with ECGS/H and without VEGF, choose Microvascular 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 5 % FCS (25 ml per 500 ml of basal medium).

PRODUCT DETAILS

Serum content	5 % FCS (25 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: 5 % (25 ml per 500 ml basal medium)
Human recombinant VEGF-165: 0.5 ng/ml
Long R3 IGF-1: 20 ng/ml
Ascorbic acid: 1 µg/ml
Human recombinant EGF: 5 ng/ml
Human recombinant bFGF: 10 ng/ml
Hydrocortisone: 0.2 µg/ml
Antibiotics (optional): gentamicin 50 µg/ml, amphotericin B 50 ng/ml

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Banking information
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Composition table

Supplement volumes for 500 ml of basal medium. The same components are also available premixed in one bottle (Supplement-Mix, Cat. No. 850160, 38 ml).

Component	Volume	Cat. No.
L-glutamine	10 ml	850121
FCS	25 ml	850108
Human recombinant VEGF-165	0.5 ml	850124
Long R3 IGF-1	0.5 ml	850126
Human recombinant EGF	0.5 ml	850114
Human recombinant bFGF	0.5 ml	850118
Ascorbic acid	0.5 ml	850127
Hydrocortisone	0.5 ml	850128
Antibiotics (optional)	3.5 ml	850119
Total (without antibiotics)	**38 ml**	

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