Advanced Endothelial Cell Growth Medium

850207

Advanced Endothelial Cell Growth Medium is used for the culture of human endothelial cells from large vessels. Defined human recombinant growth factors, including VEGF and Long R3 IGF-1, replace the crude endothelial cell growth supplement. The complete medium contains foetal calf serum, L-glutamine, heparin, EGF, bFGF, VEGF, Long R3 IGF-1, ascorbic acid and hydrocortisone. For faster expansion with a higher serum content, choose Endothelial Cell Proliferation Medium. For a formulation without VEGF, choose 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)
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
Heparin: 22.5 µg/ml
Antibiotics (optional): gentamicin 50 µg/ml, amphotericin B 50 ng/ml

Cytion GmbH
Nikola-Tesla-Str. 3
69124 Heidelberg
Tel: +49 (0)6221 405780
info@cytion.com
cytion.com

Registered office Heidelberg
VAT ID: DE283292917
Local court Mannheim - HRB 714394
CEO / Geschäftsführer: Jonathan Steubing

Banking information
Sparkasse Heidelberg
IBAN: DE35 6725 0020 0009 2076 86
BIC: SOLADES1HDB

Composition table

Supplement volumes for 500 ml of basal medium. The same components are also available premixed in one bottle (Supplement-Mix, Cat. No. 850158, 25 ml).

Component	Volume	Cat. No.
L-glutamine	10 ml	850121
FCS	10 ml	850107
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
Heparin	2 ml	850134
Antibiotics (optional)	3.5 ml	850119
Total (without antibiotics)	**25 ml**	

Cytion GmbH
Nikola-Tesla-Str. 3
69124 Heidelberg
Tel: +49 (0)6221 405780
info@cytion.com
cytion.com

Registered office Heidelberg
VAT ID: DE283292917
Local court Mannheim - HRB 714394
CEO / Geschäftsführer: Jonathan Steubing

Banking information
Sparkasse Heidelberg
IBAN: DE35 6725 0020 0009 2076 86
BIC: SOLADES1HDB