

Recommended media for endothelial cells



Endothelial cell type	Recommended endothelial cell media			
	Endothelial Cell Growth Medium C-22010/C-22110	Endothelial Cell Growth Medium 2 C-22011/C-22111	Endothelial Cell Growth Medium MV C-22020/C-22120	Endothelial Cell Growth Medium MV2 C-22022/C-22121
Large vessel endothelial cells				
HPAEC (C-12241)	✓	✓		
HSaVEC (C-12231)	✓	✓		
HUAEC (C-12202)	✓	✓		
HUVEC (C-12200/C-12203/C-12205)	✓	✓		
HUVEC 2 (C-12206/C-12208)		✓		
HAoEC (C-12271)			✓	✓
HCAEC (C-12221)			✓	✓
Microvascular endothelial cells				
HPMEC (C-12281)			✓	✓
HCMEC (C-12285)			✓	✓
HUtMEC (C-12295)			✓	✓
HDMEC (C-12210/C-12212/C-12215)			✓	✓
HDBEC (C-12211/C-12225)			✓	
HDLEC (C-12216/C-12217)				✓

Endothelial cell media composition

	Endothelial Cell Growth Medium	Endothelial Cell Growth Medium 2	Endothelial Cell Growth Medium MV	Endothelial Cell Growth Medium MV 2
Fetal Calf Serum	0.02 ml/ml	0.02 ml/ml	0.05 ml/ml	0.05 ml/ml
Epidermal Growth Factor (recombinant human)	0.1 ng/ml	5 ng/ml	10 ng/ml	5 ng/ml
Basic Fibroblast Growth Factor (recombinant human)	1 ng/ml	10 ng/ml	-	10 ng/ml
Insulin-like Growth Factor (Long R3 IGF ₁ , recombinant human)	-	20 ng/ml	-	20 ng/ml
Vascular Endothelial Growth Factor 165 (recombinant human)	-	0.5 ng/ml	-	0.5 ng/ml
Ascorbic Acid	-	1 µg/ml	-	1 µg/ml
Hydrocortisone	1 µg/ml	0.2 µg/ml	1 µg/ml	0.2 µg/ml
Endothelial Cell Growth Supplement	0.004 ml/ml	-	0.004 ml/ml	-
Heparin	90 µg/ml	22.5 µg/ml	90 µg/ml	-

Frequently asked questions

■ What's the difference between Endothelial Cell Growth Medium and Endothelial Cell Growth Medium 2?

The two media differ in their supplementation: Endothelial Cell Growth Medium contains Endothelial Cell Growth Supplement = ECGS (bovine hypothalamus extract). In Endothelial Cell Growth Medium 2, ECGS is replaced by VEGF, IGF and ascorbic acid and the concentrations of the other supplements were adapted.

■ When should I use Endothelial Cell Growth Medium, when should I use Endothelial Cell Growth Medium 2?

Endothelial Cell Growth Medium can be used for all endothelial cells that were isolated in Endothelial Cell Growth Medium and for most standard applications. If you prefer a more defined media composition, Endothelial Cell Growth Medium 2 is the medium of choice (2% FCS, no ECGS). If you plan to do VEGF stimulation, then Endothelial Cell Growth Medium is the recommended medium because the cells have not been in contact with stimulating concentrations of VEGF before.

■ What's the difference between Endothelial Cell Growth Medium MV and Endothelial Cell Growth Medium MV2?

The two media differ in their supplementation: Endothelial Cell Growth Medium MV contains Endothelial Cell Growth Supplement = ECGS (bovine hypothalamus extract). In Endothelial Cell Growth Medium MV2, ECGS is replaced by VEGF, IGF, basic FGF, EGF and ascorbic acid. A few other adaptations were made.

■ When should I use Endothelial Cell Growth Medium MV, when should I use Endothelial Cell Growth Medium MV2?

Endothelial Cell Growth Medium MV can be used for all (microvascular) endothelial cells that were isolated in Endothelial Cell Growth Medium MV and for most standard applications. If you prefer a more defined media composition, Endothelial Cell Growth Medium MV2 is the medium of choice (5% FCS, no ECGS). If you plan to do VEGF stimulation, then Endothelial Cell Growth Medium MV is the recommended medium because the cells have not been in contact with stimulating concentrations of VEGF before.

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