

Materials List for:

Endothelial Cell Co-culture Mediates Maturation of Human Embryonic Stem Cell to Pancreatic Insulin Producing Cells in a Directed Differentiation Approach

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Materials

Name	Company	Catalog Number	Comments
mTeSR1 (with supplement)	Stem Cell Technologies	5850	
hESC qualified matrigel	BD Biosciences	354277	
DMEM:F12	Invitrogen	11330-032	
MCDB-131	Invitrogen	10372019	
MCDB-131 (Complete)	VEC Technologies	MCDB-131	
B27 Supplement	Invitrogen	17504044	
Activin A	R&D Systems	338-AC	100ng/ml
Wortmannin	Invitrogen	W3144	1μM
KAAD-Cyclopamie	Sigma-Aldrich	C4116	0.2μM
All-Trans Retinoic Acid	Sigma-Aldrich	R2625	2μM
DAPT	Sigma-Aldrich	D5942	30μM
Nicotinamide	Sigma-Aldrich	N0636	10 mM
Sodium Selenite	Sigma-Aldrich	S5261	30 nM
Insulin	Sigma-Aldrich	I1882	25 μg/ml
Transferrin	Sigma-Aldrich	T8158	50 μg/ml
EGF	R&D Systems	236-EG	10ng/ml
EndoGro	VEC Technologies	ENDOGRO	10mg
Heparin	Sigma-Aldrich	H3149	90μg/ml
Hydrocortisone	Sigma-Aldrich	H0888	1μg/ml
NucleoSpin RNA II	Macherey-Nagel	740955	
ImProm II reverse transcription System	Promega Corp.	A3800	
Brilliant II SYBR Green QPCR master mix	Stratagene, Agilent Technologies	600548	
Sox17 goat polyclonal IgG	Santa Cruz Biotechnology, Inc.	sc-17355	1/500
PDX1 goat polyclonal IgG	Santa Cruz Biotechnology, Inc.	sc-14662	1/500
C-Peptide Rabbit polyclonal	Cell Signaling Technology	4593	1/500
Alexa Fluor 488 donkey anti-rabbit IgG	Invitrogen	A-21206	1/1000
Alexa Fluor 647 donkey anti-goat IgG	Invitrogen	A-21447	1/1000

Table 2. Reagents and Kits