

Materials List for:

# Epigenetic Conversion as a Safe and Simple Method to Obtain Insulin-secreting Cells from Adult Skin Fibroblasts

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## Materials

Name	Company	Catalog Number	Comments
Dulbecco's Phosphate Buffered Saline	Sigma	D5652	PBS; for cell wash and solution preparation
Antibiotic Antimycotic Solution	Sigma	A5955	Component of Fibroblast, HP and Pancreatic media
100 mm Petri dish	Sarstedt	83.3902	For Fibroblast isolation
Porcine Gelatin	Sigma	G1890	For dish coating
Water	Sigma	W3500	For solution preparation
35 mm Petri dishes	Sarstedt	83.39	For Fibroblast isolation
DMEM, high glucose, pyruvate	Life Technologies	41966052	For Fibroblast culture medium
Fetal Bovine Serum	Life Technologies	10500064	FBS; Component of Fibroblast and HP media
L-Glutamine solution	Sigma	G7513	Component of Fibroblast, HP and Pancreatic media
Trypsin-EDTA solution	Sigma	T3924	For Fibroblast dissociation
KOVA GLASSTIC SLIDE 10 WITH GRIDS	Hycor Biomedical	87144	Cell counting
5-Azacytidine	Sigma	A2385	5-aza-CR, for increase cell plasticity in fibroblasts
Ham's F-10 Nutrient Mix	Life Technologies	31550031	For HP medium
DMEM, low glucose, pyruvate	Life Technologies	31885023	For HP medium
KnockOut Serum Replacement	Life Technologies	10828028	Component of HP medium
MEM Non-Essential Amino Acids Solution	Life Technologies	11140035	Component of HP and Pancreatic Basal media
2-Mercaptoethanol	Sigma	M7522	Component of HP and Pancreatic Basal media
Guanosine	Sigma	G6264	Nucleoside mix stock component of HP medium
Adenosine	Sigma	A4036	Nucleoside mix stock component of HP medium
Cytidine	Sigma	C4654	Nucleoside mix stock component of HP medium
Uridine	Sigma	U3003	Nucleoside mix stock component of HP medium
Thymidine	Sigma	T1895	Nucleoside mix stock component of HP medium
Millex-GS 0,22 µm	Millipore	SLGS033SB	For sterilizing of solution
FGF-Basic (AA 1-155) Recombinant Human Protein	Life Technologies	PHG0261	bFGF; Component of HP and Pancreatic Basal medium

Bovine Serum Albumin	Sigma	A3311	BSA; Component of Pancreatic Basal medium
DMEM/F-12	Life Technologies	11320074	For Pancreatic Basal medium
B-27 Supplement Minus Vitamin A	Life Technologies	12587010	Component of Pancreatic medium
N-2 Supplement	Life Technologies	17502048	Component of Pancreatic Basal medium
Activin A Recombinant Human Protein	Life Technologies	PHG9014	For Pancreatic medium
Retinoic Acid	Sigma	R2625	For Pancreatic medium
Dimethyl sulfoxide	Sigma	D2650	DMSO; for Retinoic Acid stock preparation
Insulin-Transferrin-Selenium	Life Technologies	41400045	ITS; for Pancreatic Final medium
Anti-Vimentin antibody	Abcam	ab8069	For immunocytochemical analysis. Working dilution 1:100
4',6-Diamidino-2-phenylindole dihydrochloride	Sigma	32670	DAPI. For immunocytochemical analysis. Working dilution 1 µg/ml
5-Methylcytidine	Eurogentec	MMS-900P-B	For immunocytochemical analysis. Working dilution 1:500
Anti-C Peptide antibody	Abcam	ab14181	For immunocytochemical analysis. Working dilution 1:100
Anti-PDX1 antibody	Abcam	ab47267	For immunocytochemical analysis. Working dilution 1:500
Mercodia Insulin ELISA	Mercodia	10-1113-10	For insulin release detection