

Materials List for:

In Vitro Pancreas Organogenesis from Dispersed Mouse Embryonic Progenitors

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Materials

Name	Company	Catalog Number	Comments
Penicillin-Streptomycin	Gibco	15070-063	Stock kept at -20 °C
KnockOut Serum replacement (supplement)	Gibco	10828-028	Stock kept at -20 °C
2-mercaptoethanol	Sigma Aldrich	3148-25ML	Stock kept at 4 °C
Phorbol Myristate Acetate (PMA)	Calbiotech	524400-1MG	Stock kept at -20 °C
Y-27632 (ROCK inhibitor)	Sigma Aldrich	ab120129	Stock kept at -20 °C. Attention! Stability/source is a frequent source of problems.
EGF	Sigma Aldrich	E9644-2MG	Stock kept at -80 °C
Recombinant Human R-spondin 1	R&D	4645-RS-025/CF	Stock kept at -80 °C
Recombinant Mouse R-spondin 1	R&D	3474-RS-050	Stock kept at -80 °C
Recombinant Human FGF1 (aFGF)	R&D	232-FA-025	Stock kept at -80 °C - do not include to increase beta cell production
Heparin (Liquemin)	Drossapharm		Stock kept at 4 °C
Recombinant Human FGF10	R&D	345-FG-025	Stock kept at -80 °C
DMEM/F-12	Gibco	21331-020	
Penicillin-Streptomycin	Gibco	15070-063	Stock kept at -20 °C
B27 x50 (supplement)	Gibco	17504-044	Stock kept at -20 °C
Recombinant Human FGF2 (bFGF)	R&D	233-FB-025	Stock kept at -80 °C
Matrigel	Corning	356231	Stock kept at -20 °C
Trypsin 0.05%	Gibco	25300-054	Stock kept at 4 °C
RNAlater - RNA stabilizing reagent	Qiagen	76104	Store at RT
Dispase	Sigma Aldrich	D4818-2MG	Working concentration: 1.25 mg/ml. Stock kept at -20 °C
BSA for reconstitution	Milipore	81-068	For reconstitution of cytokines - stock kept at -20 °C
Fetal calf serum (FCS)	Gibco	16141079	Stock kept at -20 °C
60-well MicroWell trays	Sigma Aldrich	M0815-100EA	
4-well plates	Thermo Scientific	176740	
95-well plates F bottom	Greiner Bio	6555180	
Glas bottom plates	Ibidi	81158	
Disposal glass micropipettes	Blaubrand	708745	

Microscope			<p>Cell® imaging station (motorized inverted Olympus IX81 stand) equipped with a Hamamatsu ORCA ER B7W camera and the Ludin Cube and Box.</p> <p>Leica DMI6000 B stand surrounded with a Ludin Cube and Box, equipped with a Leica DFC365 FX camera and the AF6000 Expert/Matrix software command interface.</p>
Objective			<p>Olympus UPLAN FL NA 0.30 air 9.50 mm 10X long distance;</p> <p>Leica HC PL FLUOTAR NA 0.30 air 11.0 mm 10X long distance</p>