

Materials List for:

Serum Free Production of Three-dimensional Human Hepatospheres from Pluripotent Stem Cells

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Materials

Name	Company	Catalog Number	Comments
Cell Culture and functional assays			
Agarose	Fisher Bioreagents	10766834	
B27 supplement	Life Technologies	12587-010	
beta-mercaptoethanol	Life Technologies	31350	
Bovine Serum Albumin	Sigma-Aldrich	A2058	
DAPI	Invitrogen	D1306	
DMSO	Sigma-Aldrich	D5879	
DPBS, no calcium, no magnesium	ThermoFisher	14190250	
DPBS with Calcium and Magnesium	ThermoFisher	14040133	
Gentle cell dissociation reagent	STEMCELL Technologies	7174	
GlutaMax	Life Technologies	35050	
HepatoZYME-SFM	Life Technologies	17705021	
Human Activin A	Peptotech	120-14E	
Human Alpha Fetoprotein ELISA	Alpha Diagnostics	500	
Human Basic Fibroblast Growth Factor	Peptotech	100-18B	
Human Epithelial Growth Factor	Peptotech	236-EG	
Human Hepatocyte Growth Factor	Peptotech	100-39	
Human Oncostatin M	Peptotech	300-10	
Human Recombinant Laminin 521	BioLamina	LN521-02	
Human Serum Albumin ELISA	Alpha Diagnostics	1190	
Human Vascular Growth Factor	Bio-technie	293-VE	
Hydrocortisone 21-hemisuccinate sodium salt	Sigma-Aldrich	H4881	
Knockout DMEM	Life Technologies	10829	
Knockout Serum Replacement	Life Technologies	10828	
Micro-mold spheroids	Sigma-Aldrich	Z764000	
mTeSR1 medium	STEMCELL Technologies	5850	
Non-essential amino acids	Life Technologies	11140	

P450-Glo CYP1A2 Assay and Screening System	Promega	V8771	
P450-Glo CYP3A4 Assay and Screening System	Promega	V8801	
Penicillin-Streptomycin (10,000 U/mL)	Life Technologies	15140122	
poly-HEMA (Poly 2-hydroxyethyl methacrylate)	Sigma-Aldrich	P3932	
Recombinant mouse Wnt3a	Bio-technie	1324-WN-500/CF	
RPMTI 1640	Life Technologies	21875	
Equipment			
Microwave	Bosch		
Microtome	Leika	RM2125RT	
Oven	Thermoscientific		
Antibodies			
Primary antibodies			
Albumin	Sigma-Aldrich	A6684	1:100 (mouse)
CYP3A4	University of Dundee	University of Dundee	1:200 (sheep)
E-cadherin	Abcam	ab76055	1:200 (mouse)
HNF-4 α	Santa Cruz	sc-8987	1:100 (rabbit)
IgG	DAKO	X0943	1:400
Vimentin	DAKO	M0725	1:100 (sheep)