

Materials List for:

Semi-automated Production of Hepatocyte Like Cells from Pluripotent Stem Cells

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Materials

Name	Company	Catalog Number	Comments
405 LS Washer	Biotek		
B27 supplement	Life Technologies	12587-010	
beta-mercaptoethanol	Life Technologies	31350	
Bovine Serum Albumin	Sigma-Aldrich	A2058	
DMSO	Sigma-Aldrich	D5879	
DPBS with Calcium and Magnesium	ThermoFisher	14040133	
Gentle cell dissociation reagent	STEMCELL Technologies	7174	
GlutaMax	Life Technologies	35050	
GripTips for VIAFLO 96	Integra	6434	
HepatoZYME-SFM	Life Technologies	17705021	
Human Activin A	Peprtech	120-14E	
Human Hepatocyte Growth Factor	Peprtech	100-39	
Human Oncostatin M	Peprtech	300-10	
Human Recombinant Laminin 521	BioLamina	LN521-02	
Hydrocortisone 21-hemisuccinate sodium salt	Sigma-Aldrich	H4881	
Knockout DMEM	Life Technologies	10829	
Knockout Serum Replacement	Life Technologies	10828	
mTeSR1 medium	STEMCELL Technologies	5850	
MultidropCombi Reagent Dispenser	ThermoFisher	5840300	
Non-essential amino acids	Life Technologies	11140	
Operetta High-Content Imaging System	PerkinElmer	HH12000000	
Penicillin-Streptomycin (10,000 U/mL)	Life Technologies	15140122	
Recombinant mouse Wnt3a	R&D Systems	1324-WN-500/CF	
Rho-associated kinase (ROCK)inhibitor Y27632	Sigma-Aldrich	Y0503-1MG	
RPMI 1640	Life Technologies	21875	
Standard tube dispensing cassette	ThermoFisher	24072670	
TWEEN 20	Sigma-Aldrich	P9416	
VIAFLO 96 Electronic 96-channel pipette	Integra	6001	
PBS, no calcium, no magnesium	ThermoFisher	14190250	

Formaldehyde solution 4%, buffered, pH 6.9	Sigma-Aldrich	1.00496 EMD MILLIPORE	
P450-Glo CYP3A4 Assay and Screening System	Promega	V8801	
P450-Glo CYP1A2 Assay and Screening System	Promega	V8771	
DAPI	Invitrogen	D1306	
Antibodies			
Albumin	Sigma-Aldrich	A6684	1:200 (mouse)
Alpha-fetoprotein	Abcam	ab3980	1:500 (mouse)
CYP2D6	University of Dundee	University of Dundee	1:200 (sheep)
CYP3A4	University of Dundee	University of Dundee	1:200 (sheep)
HNF-4 α	Santa Cruz	sc-8987	1:400 (rabbit)
E-cadherin	Abcam	ab76055	1:200 (mouse)
IgG	DAKO		1:400
Anti-Mouse 488 (secondary antibody)	Life technologies	A-11001	1:400
Anti-sheep 488 (secondary antibody)	Life technologies	A-11015	1:400
Anti-rabbit 488 (secondary antibody)	Life technologies	A-11008	1:400