

Materials List for:

A Quick and Efficient Method for the Purification of Endoderm Cells Generated from Human Embryonic Stem Cells

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URL: <https://www.jove.com/video/53655>

DOI: [doi:10.3791/53655](https://doi.org/10.3791/53655)

Materials

Name	Company	Catalog Number	Comments
Hues8 human embryonic stem cell line	Harvard Department of stem cell & regenerative biology		Suitable cell line for endoderm generation
Hes3 human embryonic stem cell line	ES Cell International		Suitable and robust cell line for endoderm generation
mTeSR1	Stemcell Technologies	5850	ESC culture medium
FCS	Biowest	S1860	
Advanced RPMI 1640	Life Technologies	12633012	
CD184 (CXCR4)-APC, human	Miltenyi Biotec	130-098-357	
anti-APC MicroBeads	Miltenyi Biotec	130-090-855	
OctoMACS Separator	Miltenyi Biotec	130-042-109	magnetic field
Y-27632	Selleck Chemicals	S1049	ROCK inhibitor
CHIR-99021	Tocris Bioscience	4423	
Activin A	Peprotech	120-14	
Gentle Cell Dissociation Reagent	Stemcell Technologies	7174	Enzyme-free passaging solution, alternative: Trypsin/EDTA
Matrigel*	Corning	354277	basement membrane matrix * solve and store in aliquots at -80 °C as outlined in the suppliers manual. Upon use, thaw on ice, dilute in 25 ml ice-cold knockout DMEM/F-12. Add 1 ml to each well of a 6-well plate and incubate for 45 min at room temperature. Remove the matrigel and use immediately.
MS Columns	Miltenyi Biotec	30-042-201	
MACS Separator	Miltenyi Biotec	130-042-302	
Human FOXA2 FW gggagcgggtaagatgga	Life Technologies	NA	
Human FOXA2 REV tcattgtgctcagggaggta	Life Technologies		
Human GSC FW gaggagaaagtgagggtctggt	Life Technologies		
Human GSC REV ctctgatgaggaccgcttctg	Life Technologies		
SOX17 TaqMan assay	Applied Biosystems	Hs00751752_s1	
Human SOX7 FW gatgctgggaaagtcgtggaagg	Life Technologies		
Human SOX7 REV	Life Technologies		

tgcgcgcccggtactgtag			
Human POU5F1 FW ctgtctgcagaagtgggtggagg	Life Technologies		
Human POU5F1 REV ctgcagtgtgggttcgggca	Life Technologies		
Human Nanog FW ccgagggcagacatcatcc	Life Technologies		
Human Nanog REV ccatccactgccacatctct	Life Technologies		
Human TBP FW caa cag cct gcc acc tta cgc tc	Life Technologies		
Human TBP REV agg ctg tgg ggt cag tcc agt g	Life Technologies		
Human TUBA1A FW ggc agt gtt tgt aga ctt gga acc c	Life Technologies		
Human TUBA1A REV tgt gat aag ttg ctc agg gtg gaa g	Life Technologies		
Human G6PD FW agg ccg tca cca aga aca ttc a	Life Technologies		
Human G6PD REV cga tga tgc ggt tcc agc cta t	Life Technologies		
Anti-SOX2	Santa Cruz Biotechnology	sc-17320	
Anti-FOXA2	MerckMillipore	07-633	
Anti-SOX17	R&D Systems	AF1924	