

Materials List for

Comparative Study of Basement-membrane Matrices for Human Stem Cell Maintenance and Intestinal Organoid Generation

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jove.com/video/66277

Materials

Name	Company	Catalog Number	Comments
24-Well Plate (Culture treated, sterile)	Falcon	353504	
37 °C water bath	VWR		
96-well plate	Fisher Scientific	FB012931	
Advanced DMEM/F12	Life Technologies	12634	
Anti-adherence Rinsing Solutio	STEMCELL Technologies	7010	
Biological safety cabinet (BSC)	Labconco	Logic	
Brightfield Microscope	Echo Rebel	REB-01-E2	
BXS0116	ATCC	ACS-1030	
Centrifuge with temperature control (4 °C capabilities)	ThermoScientific	75002441	
Conical tubes, 15 mL, sterile	Thermo Fisher Scientific	339650	
Conical tubes, 50 mL, sterile	Thermo Fisher Scientific	339652	
Cultrex RGF BME, Type 2	Bio-techne	3533-005-02	
Cultrex Stem Cell Qualified RGF BME	Bio-techne	3434-010-02	
D-PBS (Without Ca++ and Mg++)	Thermo Fisher Scientific	14190144	
GeltrexLDEV-Free, hESC-Qualified Reduce Growth Factor	Gibco	A14133-02	
GlutaMAX Supplement	Thermo Fischer Scientific	35050-061	
Guava Muse Cell Analyzer or another flow cytometry equipment (optional)	Luminex	0500-3115	
HEPES buffer solution	Thermo Fischer Scientific	15630-056	
Heraicell Vios Cell culture incubator (37 °C, 5% CO ₂)	Thermo Scientific	51033775	
JMP Software	SAS Institute	JMP 16	
MATLAB	MathWorks, Inc	R2022b	

Matrigel Growth Factor Reduced (GFR) Basement Membrane Matrix LDEV free	Corning	356231	
Matrigel Matrix High Concentration (HC), Growth Factor Reduced (GFR) LDEV-free	Corning	354263	
mTeSR Plus Medium	STEMCELL Technologies	100-0276	
Nunclon Delta surface treated 24-well plate	Thermo Scientific	144530	
PE Mouse Anti-human CD326 (EpCAM)	BD Pharmingen	566841	
PE Mouse Anti-human CDX2	BD Pharmingen	563428	
PE Mouse Anti-human FOXA2	BD Pharmingen	561589	
PerCP-Cy 5.5 Mouse Anti-human SSEA4	BD Pharmingen	561565	
ReLeSR	STEMCELL	5872	
SCTi003-A	STEMCELL Technologies	200-0510	
Serological pipettes (10 mL)	Fisher Scientific	13-678-11E	
Serological pipettes (5 mL)	Fisher Scientific	13-678-11D	
STEMdiff Intestinal Organoid Growth Medium	STEMCELL Technologies	5145	
STEMdiff Intestinal Organoid Kit	STEMCELL Technologies	5140	
VitroGel Hydrogel Matrix	TheWell Bioscience	VHM01	
VitroGel ORGANOID Discovery Kit	TheWell Bioscience	VHM04-K	