

Materials List for:

Culturing and Applications of Rotating Wall Vessel Bioreactor Derived 3D Epithelial Cell Models

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Materials

Name	Company	Catalog Number	Comments
Alexa Fluor 488	Invitrogen	A21131	Used at 1:500 dilution
FACSDiva	BD Biosciences		Flow cytometer
β-tubulin antibody	Calbiochem	654162	Used at 1:5000 dilution
Bio-Plex 2000	Bio-Rad	171-000205	v5 software
Bioreactor and components	Synthecon	RCCS-4	
Cell strainer	BD Biosciences	352340	40µm pore size
Conical tube (50mL)	Corning	5-538-60	
Coverslips	VWR international	48366067	
Cytokine bead array kits	Bio-Rad	Custom human kit	
Cytodex beads	Sigma-Aldrich	C3275	
DPBS	GIBCO, by Life Technologies	14190	
EDTA	Sigma-Aldrich	ED-500G	Ethylenediaminetetraacetic acid
Epithelial specific antibody (ESA)	Chemicon International	CBL251	Used at 1:50 dilution
Fetal Bovine Serum (FBS)	GIBCO, by Life Technologies	10438	Heat inactivated
HARV (Disposable)	Synthecon	D-405	
Hydrochloric acid	Sigma-Aldrich	258148	37%
Involucrin antibody	Sigma-Aldrich	I 9018	
Microscope slides	VWR international	16004-368	
MTT reagent	MP Biomedicals	194592	3-(4,5-Dimethylthiazolyl 1-2)-2,5-Diphenyl Tetrazolium Bromide
MUC1 antibody (microscopy)	Santa Cruz Biotechnology, Inc.	Sc-7313	Used at 1:50 dilution
MUC1 antibody (flow cytometry)	BD Biosciences	559774	Also called CD227, use 20µL per test
<i>Paraformaldehyde</i>	Electron Microscopy Sciences	15710	Diluted to 4% in DPBS
Petri dish (small)	BD Biosciences	353002	
Polystyrene tube with filter	BD Biosciences	352235	
Polystyrene flow tube	BD Biosciences	352058	
PR antibody	Dako	M3569	Used at 1:100 dilution
ProLong Gold	Invitrogen	P36931	Mounting media with DAPI
RNeasy Mini Kit	Qiagen	74903	
Sodium dodecyl sulfate	Sigma-Aldrich	71725	
Sterilization pouch	VWR international	11213-035	
Stopcocks (one-way)	MedexSupply	MX5061L	
Syringe (10mL)	BD Biosciences	309604	Luer-lock tip
Syringe (5mL)	BD Biosciences	309603	Luer-lock tip

Trypan Blue	Invitrogen	T10282	
Vp5 antibody	Santa Cruz Biotechnology, Inc.	sc-13525	HSV-2 antibody Clone 6F10; used at 1:5000 dilution