

Materials List for:

Use of Decellularized Mammalian Lung Tissues to Study Cell: Matrix Interactions

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Materials

Name	Company	Catalog Number	Comments
Heparin	Sigma- Aldrich	H4784	250U/kg
Urethane	Sigma-Aldrich	U2500-500G	180mg/ml in 1XPBS
sodium nitroprusside (SNP)	Sigma	71778-25g	prepare 1 ug/ml SNP in 1× PBS before use, no more than 24 hours, sterile by 0.45 µm filter, protect from light
EDTA	American Bioanalytical	AB00502-01000	PH 8.0, 0.5M
BSA	Sigma	A9647-100G	0.1mg/ml
benzonase nuclease	Sigma-Aldrich		(St Louis, MO) (90U/ml for human lung tissue and 50U/ml for mouse lung tissue) for 1 hour, 37 °C
Poly-L-Lysine	Becton Dickinson, Two Oak Park, Bedford, MA	356515	
<i>Decellularization Solution</i>			
CHAPS	Sigma-Aldrich	C3023	8 nM
NaCl	J.T.Baker	3624-01	1 M
EDTA	American Bioanalytical	AB00502-01000-0.5M	25mM
10XPBS	American Bioanalytical	AB11072-04000	
<i>Benzonase Buffer</i>			
Tris-HCl	American Bioanalytical	AB14043-01000	PH 8.0, 1M
BSA	Sigma-Aldrich	A9647-100G	0.1mg/ml
MgCl2	J.T.Baker	2444-01- 1mM	PH 8.0
Benzonase Nuclease	Sigma-Aldrich	E1014	Endonuclease used to remove remnant DNA from matrix
<i>fibroblast medium</i>			
DMEM	Gibco	11965092	
FBS	Sigma	F4135-500ml	10%
penicillin/streptomycin	Gibco	15140-122	1%
Anti-anti	Gibco	15240-062	1%
Dialysis Cassettes	Thermo	87723, 3.5K	
<i>ECM working solution</i>			optimized for PBMCs
ECM protein			20 ug/ml

FBS	Sigma	F4135-500ml	10%
penicillin/streptomycin	Gibco	15140-122	1%
DMEM	Gibco	12100-046	
cell culture level water			
<i>sterilization solution PBS</i>			
Gentamicin	Sigma-Aldrich	G-1397-10ml	2%
Penicillin/streptomycin	Gibco	15140-122	10%
Anti-anti	Gibco	15240-062	2%, optional
<i>Lysis Buffer</i>			
Tris-HCl	American Bioanalytical	AB14043-01000	50mM
KCl	J.T.Baker	3040-01	50 mM
EDTA	American Bioanalytical	AB00502-01000-0.5M	2.5 mM
NP-40	Fluka BioChemika	74385	0.45%
Tween-20	Sigma	P-5927	0.45%
dd H ₂ O			
Proteinase K	Sigma		20 ug/ml, added before use
BioRad protein assay dye reagent concentrate Kit	BioRad	500-0006	
Histopaque	Sigma	10771-100ml	
Beckman Coulter DU 530	Beckman Institute		Urbana, IL
<i>Multiknife</i>			
Blade	VWR	55411-050	
Super Glue Gel	Krazy Glue	KG585	