

Materials List for

A Microphysiological System to Study Leukocyte-Endothelial Cell Interaction during Inflammation

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jove.com/video/63312

Materials

Name	Company	Catalog Number	Comments
1 mL syringe	Fisher Scientific	14-823-30	
Biomimetic microfluidic assay (bmFA)	SynVivo	SMN1-C001	Exclusive at SynVivo
Blunt needle	Jensen Global	JG24-0.5	
Calcium Chloride	Fisher Scientific	C70-500	
CFDA, SE	ThermoFisher	C1157	
Dextran, 250,000, Powder	Spectrum Chemical Mfg. Corp	DE-130	
Ficoll-Paque Premium	GE Health Care	17-5442-02	Leukocyte isolation media
fMLP	Sigma-Aldrich	F3506	
Hepes	Fisher Scientific	AAJ1692630	
Human fibronectin	Fisher Scientific	33-016-015	use vendor recommended ECM for different cell lines
Microvascular Endothelial Cell Growth Medium-2 BulletKit	Lonza	cc-3202	Human lung microvascular endothelial cell culture medium (HLMVEC).
Human lung microvascular endothelial cells	Lonza	cc-2527	use vendor recommended trypsin-EDTA and TNS
Magnesium Chloride	Fisher Scientific	BP214-500	
Nikon Eclipse Ti2	Nikon Instruments Inc.		Microscope
NIS-elements, 5.20.01	Nikon Instruments Inc.		Imaging software
PBS	Fisher Scientific	MT21040CV	
PhD Ultra Syringe Pump	Harvard Apparatus	70-3007	Syringe Pump
Potassium Hydroxide	Fisher Scientific	02-003-763	
Recombinant Human TNF-alpha	R&D Systems	210-TA	
Slide clamp	SynVivo		
Sodium Chloride	Fisher Scientific	S640-500	
Synvivo Pneumatic Primer	SynVivo		

Trypsin-EDTA, Trypsin Neutralization Solution(TNS)	Lonza	cc-5034	
Tygon tubing	Fisher Scientific	50-206-8921	Tubing