

Materials List for:

Gene Expression Analysis of Endothelial Cells Exposed to Shear Stress Using Multiple Parallel-plate Flow Chambers

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Materials

Name	Company	Catalog Number	Comments
0.05% Trypsin-EDTA	gibco	25300-062	
10 mL Syringe	BD	302995	
10 mm ² Culture Dish	Sarstedt	83.3902	
30 mL Syringe	BD	302832	
4-Way Stopcocks	Discofix	D500	
Aluminum foil			
BEACH	Darwin Chambers Company	MN: HO85, SN: 4947549	
Cell Scrapers			
CO ₂ Meter	BioSphenix, Ltd.	MN: P120, SN: 0342	
CO ₂ Sensor	BioSphenix, Ltd.	MN: C700, SN: 52852	
Distilled water	gibco	15230-170	
Dulbecco's phosphate-buffered saline (DPBS) -/-	gibco	14190-144	
Endothelial Cell Growth Medium 2	Promo Cell	C-22011	
Endothelial Cell Growth Medium 2 Supplement Mix	Promo Cell	C-39216	
Fibronectin (pure)	Sigma-Aldrich	11051407001	
Filter (0.20 µm)	Sarstedt	83.1826.001	
Flow Dampener and Cap	U of T glass blowing shop		
Flow Meter: 400 Series Console	Transonic Scisense Inc.	T402	
Flow Meter: 400 Series Tubing	Transonic Scisense Inc.	TS410	
Flow Reservoir and Cap	U of T glass blowing shop		
Flow Sensor	Transonic Scisense Inc.	ME4PXL	
Isotemp 737F Oven	Fisher Scientific	FI-737F	
J cloth	J cloth		
Microscope Slide (25 x 75 x 1 mm)	Fisherfinest	12-544-4	
Paper sterilization pouch	Cardinal Health	92713	
Pump (Masterflex L/S Economy Drive)	Cole-Parmer	7554-90	
Pump Head (Masterflex L/S Easy Load)	Cole-Parmer	7518-00	
Rectangular 4 Well Dish	Thermo Scientific	267061	

Tweezers			
Name	Company	Catalog Number	Comments
Tubing			
Masterflex C-Flex L/S 25 Soft Tubing	Cole-Parmer	06424-25	
Masterflex C-Flex L/S 14 Soft Tubing	Cole-Parmer	06424-14	
Masterflex C-Flex L/S 16 Soft Tubing	Cole-Parmer	06424-16	
Masterflex PharMed BPT L/S 13 Hard Tubing	Cole-Parmer	06508-13	
Masterflex PharMed BPT L/S 14 Hard Tubing	Cole-Parmer	06508-14	
Name	Company	Catalog Number	Comments
Luer			
3/16" Male Luer	Cole-Parmer	45518-08	For #25 tubing
1/8" Male Luer	Cole-Parmer	30800-24	For #16 tubing
1/8" Female Luer	Cole-Parmer	30800-08	For #16 tubing
1/16" Male Luer	Cole-Parmer	45518-00	For #14 tubing
1/16" Female Luer	Cole-Parmer	45508-00	For #14 tubing
Name	Company	Catalog Number	Comments
Knockdown reagents			
Oligofectamine Reagent	Invitrogen	12252-011	
Opti-MEM I Reduced Serum Medium	gibco	31985-070	
Name	Company	Catalog Number	Comments
In vitro transcription			
Generuler 1kb+ DNA ladder	Thermo Scientific	SM1331	
MEGAClear Kit	Ambion	AM1908	
mMESSSEGE mMACHINE SP6 Transcription Kit	Ambion	AM1340	
pSP-luc+	Promega	E4471	
Supercoiled DNA Ladder	New England BioLabs Inc.	N0472S	
UltraPure Agarose	Invitrogen	16500-500	
UltraPure Ethidium Bromide	Invitrogen	15585011	
XhoI Restriction Enzyme	New England BioLabs Inc.	R0146S	
Name	Company	Catalog Number	Comments
RNA extraction			
Beta-mercaptoethanol	Sigma	M3148-100mL	
RNeasy Mini Kit	Qiagen	74104	