

Materials List for

A Proinflammatory, Degenerative Organ Culture Model to Simulate Early-Stage Intervertebral Disc Disease.

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jove.com/video/62100

Materials

Name	Company	Catalog Number	Comments
1-Bromo-3-chloropropane(BCP)	Sigma-Aldrich, St. Louis, USA	B9673	
Ascorbate-2-phosphate	Sigma-Aldrich, St. Louis, USA	A8960	
Band saw	Exakt Apparatebau, Norderstedt, Germany	model 30/833	
Betadine	Munndipharma, Frankfurt, Germany		
Bovine IL-8 Do.it-Yourself ELISA	Kingfisher Biotech, St. Paul, USA	DIY1028B-003	
Corning ITS Premix	Corning Inc., New York, USA	354350	
DMEM high glucose	Gibco by life technologies, Carlsbad, USA	10741574	
DMEM low glucose	Gibco by life technologies, Carlsbad, USA	11564446	
Ethanol for molecular biology	Sigma-Aldrich, St. Louis, USA	09-0851	
Fetal Bovine Serum (FBS)	Gibco by life technologies, Carlsbad, USA	A4766801	
Non-essential amino acid solution	Gibco by life technologies, Carlsbad, USA	11140050	
Penicillin/Streptomycin(P/S)	gibco by life technologies, Carlsbad, USA	11548876	
Phosphate Buffer Solution, tablet	Sigma-Aldrich, St. Louis, USA	P4417	
Pronase	Sigma-Aldrich, St. Louis, USA	10165921001	
Primocin	InvivoGen, San Diego, USA	ant-pm-05	
Pulsavac Jet Lavage System	Zimmer, IN,USA		
TissueLyser II	Quiagen, Venlo, Netherlands	85300	
Streptavidinn-HRP	Kingfisher Biotech, St. Paul, USA	AR0068-001	
Superscript VILO	Invitrogen by life Technologies, Carlsbad, USA	10704274	
cDNA Synthesis Kit	Applied Biosystems by life technologies	10400745	

TaqMan Universal Master Mix	Applied Biosystems by life technologies		
TNF-alpha, recombinant human protein	R&D systems, Minnesota, USA	210-TA-005	
TRI Reagent	Molecular Research Center, Cincinnati, USA	TR 118	
Tris-EDTA buffer solution	sigma-Aldrich, St. Louis, USA	93283	
Gene bIL-6	Applied Biosystems by life technologies	Custom made probes	Primer fw (5'-3') TTC CAA AAA TGG AGG AAA AGG A Primer rev (5'-3') TCC AGA AGA CCA GCA GTG GTT Probe (5'FAM/3'TAMRA) CTT CCA ATC TGG GTT CAA TCA GGC GATT
Gene bIL8	Applied Biosystems by life technologies	Bt03211906_m1	
Gene bTNF-alpha	Applied Biosystems by life technologies	Custom made probes	Primer fw (5'-3') CCT CTT CTC AAG CCT CAA GTA ACA A Primer rev (5'-3') GAG CTG CCC CGG AGA GTT Probe (5'FAM/3'TAMRA) ATG TCG GCT ACA ACG TGG GCT ACC G
GENE bIL1beta	Applied Biosystems by life technologies	Custom made probes	Primer fw (5'-3') TTA CTA CAG TGA CGA GAA TGA GCT GTT Primer rev (5'-3') GGT CCA GGT GTT GGA TGC A Probe (5'FAM/3'TAMRA) CTC TTC ATC TGT TTA GGG TCA TCA GCC TCA A
RPLP0	Applied Biosystems by life technologies	Bt03218086_m1	