

Materials List for:

A 3D System for Culturing Human Articular Chondrocytes in Synovial Fluid

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Materials

Name	Company	Catalog Number	Comments
Table of specific reagents and equipment:			
Name of the Reagent	Company	Catalogue Number	Comments
Alginate (Alginic Acid sodium salt)	Sigma-Aldrich	A2158-250G	2.4% solution stored at 40°C
Calcium Chloride Dihydrate, Granular	JT Baker	A19339	
Chondrogenic Growth media	Lonza Inc.	CC-3156 (base media)	
CC-4409 (supplement)			
Chondrogenic Differentiation Media	Lonza Inc.	CC-3226 (base media)	
CC-4408 (supplement)			
Human articular chondrocytes	Lonza Inc.	CC-2550	
Dapi (4',6-Diamidino-2-phenylindole dihydrochloride)	Sigma-Aldrich	D9542	
RNeasy mini kit (for RNA extraction)	Qiagen	74104	
PCR reagents: SYBR-green	Quanta Biosciences	95053-500	
12 ml syringe	Tyco Healthcare, Covidien	512852	
22-Gague Hypodermic Needle	Tyco Healthcare, Covidien	8881	
Microscope	Olympus Corporation	IX71	
Platform rocker	Thermo Fisher Scientific, Inc.	Vari-mix	
Collagen Ila-forward			5'-TTC ATC CCA CCC TCT CAC AGT-3'
Collagen Ila-reverse			5'-CCTCTGCCTTGACCCGAA-3'
MMP13-forward			5'-TGT GCC CTT CTT CAC ACA GAC ACT-3'
MMP13-reverse			5'-GAG AGC AGA CTT TGA GTC ATT GCC-3'
Caspase 3-forward			5'-TCA TTA TTC AGG CCT GCC GTG GTA-3'
Caspase 3-reverse			5'-TGG ATG AAC CAG GAG CCA TCC TTT -3'