

Materials List for:

Surgical Retrieval, Isolation and *In vitro* Expansion of Human Anterior Cruciate Ligament-derived Cells for Tissue Engineering Applications

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Materials

Name	Company	Catalog Number	Comments
Petri dish	Fisher Scientific	08-757-103C	
Phosphate Buffered Saline (PBS)	Fisher Scientific	BP3994	
Collagenase	Gibco	17018-029	Store at 4 °C
DMEM/F-12	Cellgro	10-092-CV	Store at 4 °C. Warm in 37 °C water bath before use.
Fetal Bovine Serum (FBS)	Gibco	10082	Store at -80 °C
Penicillin/Streptomycin	Lonza	17-602E	Store at 4 °C
Centrifuge Tubes- 15 ml	Corning	430790	
T-25 flasks	BD Falcon	3013	
Trypsin-Versene mixture	Lonza	17-161E	Store at 4 °C. Warm in 37 °C water bath before use.
DMSO	Fisher Scientific	BP231-100	Combustible liquid. Can cause skin, eye and respiratory tract irritation.
Cryogenic vials	Corning	430489	
PLAGA	Purac Biomaterials	Purasorb PLG8523	Store at -80 °C
TCPS disks	Fisher Scientific	12-545-82	
Dichloromethane	Fisher Scientific	AC36423-0010	Possible cancer hazard. Store in a dry, cool place.
Bytac paper	Saint goblin performance plastics	1420652	
Scintillation vial	Fisher Scientific	03-339-21G	
Bovine Serum Albumin (BSA)	Sigma Aldrich	A7906	Store at 4 °C
Tween	Fisher Scientific	BP337-500	
mouse Anti-β-actin antibody (1° Ab)	Sigma Aldrich	A5441	Store at -20 °C
goat-anti-mouse antibody (2° Ab)	Cell Signaling	4408	Store at -20 °C
Hoechst dye	Sigma Aldrich	14530	Store at -20 °C
Glycerol	Fisher Scientific	BP229-1	
Glutaraldehyde	Fisher Scientific	BP2547-1	Toxic by inhalation and if swallowed. Causes burns by all exposure routes.
Hexamethyldisilazane	Fisher Scientific	AC43085-1000	Flammable liquid and vapor. Causes burns by all exposure routes.
Sterile Scissors	Mckesson	25-716	

Centrifuge	Eppendorf	5804R	
Light Microscope	Olympus	CK40	
Water Bath	Thermo scientific	2845	
Vortex	Labnet	VX-200	
Glass Petri plates	fisher Scientific	S31473	
Acu-Punch	Acuderm Inc.	P1225	Acu-Punch was used to cut 12 mm disks
Cacodylate buffer	Sigma Aldrich	97068	Flammable liquid, carcinogen and irritant.
Osmium tetroxide	Sigma Aldrich	201030	Highly toxic
Triton X-100	Sigma Aldrich	T8787	Harmful if swallowed
Ethanol	Decon Labs	2705	Keep away from heat, sparks, flame and other form of ignition.
General/regional Anesthesia	Amphastar pharmaceuticals		1% Lidocaine, 0.25% Bupivacaine, Anesthetic agents for induction and maintenance
Antibiotics	Hospira	0409-0805-01	Ancef 1 g i.v.
Arthroscopy trocar	Smith and Nephew		
Arthroscopy Camera	Smith and Nephew		
Arthroscopic grasper and bitter	Arthrex		
4.5 mm shaver	Arthrex		
Interference Screws	Arthrex		stainless steel screws
Sputter Coater	Polaron	E5400	