

Materials List for:

# Biotribological Testing and Analysis of Articular Cartilage Sliding against Metal for Implants

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## Materials

Name	Company	Catalog Number	Comments
Amphotericin B	Sigma?Aldrich Chemie GmbH	A-2942-100ML	
buffered formaldehyde solution 4%	VWR	97131000	
Cell Proliferation Kit II (XTT)	Roche Diagnostics	11465015001	XTT-based ex vivo toxicology assay
CoCrMo raw material	Acnis International		CoCrMo rods 6mm in diameter
CryoStar NX70 Cryostat	Thermo Fischer Scientific		cryosectioning device
dimethyl sulfoxide (DMSO)	Sidma-Aldrich Chemie	D 2438-10ML	
Dulbecco's modified Eagle's medium	Sigma?Aldrich Chemie GmbH		medium
fetal bovine serum	Gibco		
Hyaluronic acid	Anika Therapeutics Inc.		component of lubricating solution
iCycler	BioRad		thermal cycler
Leica microscope DM?1000	Leica		microscope for histology
LightCycler 480 Sealing Foil	Roche Diagnostics		
LightCycler 96	Roche Diagnostics		thermal cycler for PCR
MagNA Lyser Green Beads	Roche Diagnostics	3358941001	
Osteochondral Autograft Transfer System (OATS)	Arthrex Inc.		cutting tube for harvesting osteochondral cylinders
osteosoft	Merck	1017279010	decalcifier-solution
Penicillin /Streptomycin	Sigma?Aldrich Chemie GmbH	P4333-100ML	
phosphate?buffered saline	Sigma?Aldrich Chemie GmbH		PBS
Prescale Low Pressure	Fujifilm		pressure indicating film
RNeasy Fibrous Tissue Kit	QIAGEN	74404	
Synergy 2	BioTek Instruments		plate reader
Tetra?Falex MUST	Falex Tribology		Tribometer
Tissue? Tek O.C.T.	SAKURA	4583	embedding formulation
Transcriptor First Strand cDNA Synthesis Kit	Roche Diagnostics	40897030001	
β-mercaptoethanol	Sidma-Aldrich Chemie	M3148	