

Materials List for:

# Engineering Fibrin-based Tissue Constructs from Myofibroblasts and Application of Constraints and Strain to Induce Cell and Collagen Reorganization

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## Materials

Name	Company	Catalog Number	Comments
Culture plastic	Greiner		Includes culture flasks and pipettes
Advanced DMEM	Gibco	12491	
Fetal bovine serum	Greiner	758075	
Penicillin/streptomycin	Gibco	10378016	
GlutaMax	Gibco	35050-079	
Elastomer and curing agent	Dow Corning Corporation	3097358-1004	Silastic MDX 4-4210#
Velcro	Regular store		You can buy this at a regular store, only use the soft side
Bioflex culture plates	Flexcell Int	BF-3001U	Untreated
L-Ascorbic Acid 2-phosphatase	Sigma	A8960	
ε-Amino Caproic Acid	Sigma-Aldrich	D7754	
Bovine thrombin	Sigma	T4648	
Bovine fibrinogen	Sigma	F8630	
0.45 syringe filter	Whatmann (Schleicher and Scheul)	10462100	
Polystyrene microspheres	Invitrogen	F-8829	Blue fluorescent, 10 μm diameter
Flexcell FX-4000T	Flexcell Int		Includes rectangular loading posts
Cell Tracker Orange	Invitrogen Molecular Probes	C2927	
CNA35-OG488			Cordially provided by the Laboratory for Macromolecular and Organic Chemistry, Department of Biomedical Engineering, Eindhoven University of Technology
Confocal laser scanning microscope	Carl Zeiss		LSM 510 Meta laser scanning microscope and Two-Photon-LSM mode
Amphotericin	Gibco	15290-018	Needed for cell isolation